



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: <ul style="list-style-type: none">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. <ul style="list-style-type: none">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: <ul style="list-style-type: none">• 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Inbound. 2—Outbound. 	N/A
AppAcIType	ACL type.	Index	Enumeration: <ul style="list-style-type: none"> 1—IPv4. 2—IPv6. 3—Ethernet frame header ACL. 4—User-defined ACL. 5—ACL with the default action. 	<ul style="list-style-type: none"> Type 5 is a special ACL.
AppAcIGroup	ACL name or number.	Index	String. Length: 1 to 63 characters. <ul style="list-style-type: none"> 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. 	<p>An ACL name must start with an English letter and cannot be all.</p> <p>The value range depends on the AppAcIType column.</p> <ul style="list-style-type: none"> 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>
      <AclType></AclType>
      <AclGroup></AclGroup>
      <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. <ul style="list-style-type: none">Length: 1 to 31 characters.	Cannot contain midline(-).
DestZone	Name of the destination zone.	Index	String, case insensitive. <ul style="list-style-type: none">Length: 1 to 31 characters.	Cannot contain midline(-).
AclType	ACL type.	Index	Enumeration: <ul style="list-style-type: none">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.
AclGroup	ACL name or number.	Index	<ul style="list-style-type: none">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 AppAclType column. <ul style="list-style-type: none">2000 to 5999 if AppAclType is 1.2000 to 3999 if AppAclType 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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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: <ul style="list-style-type: none">• 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. <ul style="list-style-type: none"> 2000 to 5999 if GroupType is 1. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> IPv6 basic ACL: 2000 to 2999. IPv6 advanced ACL: 3000 to 3999.
MatchOrder	Order in which the rules are sorted	N/A	Enumeration: <ul style="list-style-type: none"> 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 supported for number ACL.
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: <ul style="list-style-type: none"> 1—IPv4. 2—IPv6. 3—MAC. 4—User-defined. 	N/A
GroupCategory	ACL Category	Index	Enumeration: <ul style="list-style-type: none"> 0—invalid. 1—basic. 2—advanced. 	The value range depends on the GroupType column. <ul style="list-style-type: none"> 1 to 2 if GroupType is 1 or 2. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 2000 to 3999 if GroupType is 1. <ul style="list-style-type: none"> IPv4 basic ACL: 2000 to 2999. IPv4 advanced ACL: 3000 to 3999. 2000 to 3999 if GroupType is 2. <ul style="list-style-type: none"> IPv6 basic ACL: 2000 to 2999. IPv6 advanced ACL: 3000 to 3999.

Column name	Column description	Column type	Data type and restrictions	Remarks
				<ul style="list-style-type: none"> 4000 to 4999 if GroupType is 3. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <SrcObjectGroup></SrcObjectGroup>
      <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 .
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column and the SrcAny column cannot both be configured.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <SrcObjectGroup></SrcObjectGroup>
      <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. <ul style="list-style-type: none">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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 .
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column and the SrcAny column cannot both be configured.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: <ul style="list-style-type: none"> 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.	It cannot be the word all .

Column name	Column description	Column type	Data type and restrictions	Remarks
			The string must start with an English letter.	
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <SrcObjectGroup></SrcObjectGroup>
      <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> SrcIPv6Addr. SrcIPv6Prefix. 	This column must be configured together with the SrcAny column. The two members must

Column name	Column description	Column type	Data type and restrictions	Remarks
				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 .
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column and the SrcAny column cannot both be configured.
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
				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>
      <SrcObjectGroup></SrcObjectGroup>
      <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. <ul style="list-style-type: none"> 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 rule ID, starting from 0.
Action	Action on packets matching the rule.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 .
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column and the SrcAny column cannot both be configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

```
<ACL>
  <IPv4AdvanceRules>
```



```

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  <GroupID></GroupID>
  <RuleID></RuleID>
  <Action></Action>
  <ProtocolType></ProtocolType>
  <SrcAny></SrcAny>
  <SrcIPv4>
    <SrcIPv4Addr></SrcIPv4Addr>
    <SrcIPv4Wildcard></SrcIPv4Wildcard>
  </SrcIPv4>
  <SrcObjectGroup></SrcObjectGroup>
  <DstAny></DstAny>
  <DstIPv4>
    <DstIPv4Addr></DstIPv4Addr>
    <DstIPv4Wildcard></DstIPv4Wildcard>
  </DstIPv4>
  <DstObjectGroup></DstObjectGroup>
  <ECN></ECN>
  <DSCP></DSCP>
  <DSCPRange>
    <StartDSCP></StartDSCP>
    <EndDSCP></EndDSCP>
  </DSCPRange>
  <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>

```



```

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<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>
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  <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 .

Column name	Column description	Column type	Data type and restrictions	Remarks
				It must be empty when the SrcAny column is true .
SrcObject Group	Source object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column and the SrcAny column cannot both be configured.
DstAny	Whether a rule matches any destination IP addresses.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 .
DstObject Group	Destination object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column and the DstAny column cannot both be configured.
ECN	ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	ECN and TOS cannot be specified together.
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
DSCPRange	DSCP priority range.	Data structure	Members include: <ul style="list-style-type: none"> StartDSCP EndDSCP 	DSCP and DSCPRange cannot be specified together.
StartDSCP	Start DSCP priority of a DSCP priority range.	N/A	Unsigned integer. Value range: 0 to 63.	The end DSCP must be greater than start DSCP.
EndDSCP	End DSCP priority of a DSCP priority range.	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.	The DSCP priority and the

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 15.	ToS precedence cannot both be specified.
SrcPort	Source port information.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> ACK. FIN. PSH. RST. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> • SYN. • URG. 	
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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	Only the ICMP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
			specified.	
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
InSrcIPv4	Inner source IPv4 information.	Data structure	Members include: <ul style="list-style-type: none"> InSrcIPv4Addr. InSrcIPv4Wildcard. 	<p>Only the VXLAN encapsulation supports this column.</p> <p>This column must be configured together with the InSrcAny column.</p> <p>The two members must both be specified.</p>
InSrcIPv4 Addr	Inner source IPv4 address.	N/A	String, dotted decimal notation.	<p>Example: 1.1.1.1.</p> <p>This column is available when the InSrcAny column is false.</p> <p>It must be empty when the InSrcAny column is true.</p>
InSrcIPv4 Wildcard	Wildcard mask for the inner source IPv4 address.	N/A	String, dotted decimal notation.	<p>Example: 255.255.255.0.</p> <p>This column is available when the InSrcAny column is false.</p> <p>It must be empty when the InSrcAny column is true.</p>
InDstAny	Whether a rule matches any inner destination IP addresses.	N/A	<p>Boolean:</p> <ul style="list-style-type: none"> true—Matches any inner destination IP addresses (default). false—Matches the specified inner destination IP address. 	<p>This column must be configured together with the InDstIPv4 column.</p>
InDstIPv4	Inner destination IPv4 information.	Data structure	Members include: <ul style="list-style-type: none"> InDstIPv4Addr. InDstIPv4Wildcard. 	<p>Only the VXLAN encapsulation supports this column.</p> <p>This column must be configured together with the InDstAny column.</p> <p>The two members must both be specified.</p>
InDstIPv4 Addr	Inner destination IPv4 address.	N/A	String, dotted decimal notation.	<p>Example: 1.1.1.1.</p> <p>This column is available when the InDstAny column is false.</p> <p>It must be empty when the InDstAny column is true.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
InDstIPv4 Wildcard	Wildcard mask for the inner destination IPv4 address.	N/A	String, dotted decimal notation.	<p>Example: 255.255.255.0.</p> <p>This column is available when the InDstAny column is false.</p> <p>It must be empty when the InDstAny column is true.</p>
InSrcPort	Inner source port information.	Data structure	<p>Members include:</p> <ul style="list-style-type: none"> InSrcPortOp. InSrcPortValue1. InSrcPortValue2. 	<p>Only the TCP and UDP inner protocols support this column.</p> <p>The members must be all specified.</p>
InSrcPortOp	Inner source port operator.	N/A	<p>Boolean:</p> <ul style="list-style-type: none"> 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	<p>Unsigned integer.</p> <p>Value range: 0 to 65535.</p>	N/A
InSrcPortValue2	End inner source port.	N/A	<p>Unsigned integer.</p> <p>Value range: 0 to 65536.</p>	<p>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.</p>
InDstPort	Inner destination port information.	Data structure	<p>Members include:</p> <ul style="list-style-type: none"> InDstPortOp. InDstPortValue1. InDstPortValue2. 	<p>Only the TCP and UDP inner protocols support this column.</p> <p>The members must be all specified.</p>
InDstPortOp	Inner destination port operator.	N/A	<p>Boolean:</p> <ul style="list-style-type: none"> 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	<p>Unsigned integer.</p> <p>Value range: 0 to 65535.</p>	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

```

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    <Rule>
      <GroupIndex></GroupIndex>
      <RuleID></RuleID>
      <Action></Action>
      <ProtocolType></ProtocolType>
      <SrcAny></SrcAny>
      <SrcIPv4>
        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4Wildcard></SrcIPv4Wildcard>
      </SrcIPv4>
    </Rule>
  </IPv4NamedAdvanceRules>
</ACL>

```



```

</SrcIPv4>
<SrcObjectGroup></SrcObjectGroup>
<DstAny></DstAny>
<DstIPv4>
  <DstIPv4Addr></DstIPv4Addr>
  <DstIPv4Wildcard></DstIPv4Wildcard>
</DstIPv4>
<DstObjectGroup></DstObjectGroup>
<ECN></ECN>
<DSCP></DSCP>
<DSCPRange>
  <StartDSCP></StartDSCP>
  <EndDSCP></EndDSCP>
</DSCPRange>
<Precedence></Precedence>
<TOS></TOS>
<SrcPort>
  <SrcPortOp></SrcPortOp>
  <SrcPortValue1></SrcPortValue1>
  <SrcPortValue2></SrcPortValue2>
</SrcPort>
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  <DstPortOp></DstPortOp>
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  <DstPortValue2></DstPortValue2>
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  <FIN></FIN>
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  <SYN></SYN>
  <URG></URG>
</TcpFlag>
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</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>
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</InDstIPv4>
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    <InSrcPortValue1></InSrcPortValue1>
    <InSrcPortValue2></InSrcPortValue2>
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<InDstPort>
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    <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. <ul style="list-style-type: none"> ACL name: Case-insensitive string of 1 to 63 characters. ACL number: 	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
			String of digits in the range of 3000 to 3999.	
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 .
SrcObject	Source object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column and the SrcAny column cannot

Column name	Column description	Column type	Data type and restrictions	Remarks
Group				both be configured.
DstAny	Whether a rule matches any destination IP addresses.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 .
DstObject Group	Destination object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column and the DstAny column cannot both be configured.
ECN	ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	ECN and TOS cannot be specified together.
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
DSCPRange	DSCP priority range.	Data structure	Members include: <ul style="list-style-type: none"> StartDSCP EndDSCP 	DSCP and DSCPRange cannot be specified together.
StartDSCP	Start DSCP priority of a DSCP priority range.	N/A	Unsigned integer. Value range: 0 to 63.	The end DSCP must be greater than start DSCP.
EndDSCP	End DSCP priority of a DSCP priority range.	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: <ul style="list-style-type: none"> SrcPortOp. 	Only the TCP and UDP protocols and the VXLAN

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> SrcPortValue1. SrcPortValue2. 	encapsulation support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> ACK. FIN. PSH. RST. SYN. URG. 	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1.	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 0—ACK flag is not set. 1—ACK flag is set. 	
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	N/A	Boolean: <ul style="list-style-type: none"> true—Matches only non-first fragments. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	fragments.		<ul style="list-style-type: none"> false—Matches both 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
QoSLocalID	Local QoS ID.	N/A	Unsigned integer. Value range: 1 to 4095.	N/A
EncapType	Encapsulation type.	N/A	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> InSrcIPv4Addr. InSrcIPv4Wildcard. 	Only the VXLAN encapsulation supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>This column must be configured together with the InSrcAny column.</p> <p>The two members must both be specified.</p>
InSrcIPv4 Addr	Inner source IPv4 address.	N/A	String, dotted decimal notation.	<p>Example: 1.1.1.1.</p> <p>This column is available when the InSrcAny column is false.</p> <p>It must be empty when the InSrcAny column is true.</p>
InSrcIPv4 Wildcard	Wildcard mask for the inner source IPv4 address.	N/A	String, dotted decimal notation.	<p>Example: 255.255.255.0.</p> <p>This column is available when the InSrcAny column is false.</p> <p>It must be empty when the InSrcAny column is true.</p>
InDstAny	Whether a rule matches any inner destination IP addresses.	N/A	<p>Boolean:</p> <ul style="list-style-type: none"> true—Matches any inner destination IP addresses (default). false—Matches the specified inner destination IP address. 	<p>This column must be configured together with the InDstIPv4 column.</p>
InDstIPv4	Inner destination IPv4 information.	Data structure	<p>Members include:</p> <ul style="list-style-type: none"> InDstIPv4Addr. InDstIPv4Wildcard. 	<p>Only the VXLAN encapsulation supports this column.</p> <p>This column must be configured together with the InDstAny column.</p> <p>The two members must both be specified.</p>
InDstIPv4 Addr	Inner destination IPv4 address.	N/A	String, dotted decimal notation.	<p>Example: 1.1.1.1.</p> <p>This column is available when the InDstAny column is false.</p> <p>It must be empty when the InDstAny column is true.</p>
InDstIPv4 Wildcard	Wildcard mask for the inner destination IPv4	N/A	String, dotted decimal notation.	<p>Example: 255.255.255.0.</p> <p>This column is available</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
	address.			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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <SrcObjectGroup></SrcObjectGroup>
      <DstAny></DstAny>
    </Rule>
  </IPv6AdvanceRules>
</ACL>

```



```

<DstIPv6>
  <DstIPv6Addr></DstIPv6Addr>
  <DstIPv6Prefix></DstIPv6Prefix>
</DstIPv6>
<DstObjectGroup></DstObjectGroup>
<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>
</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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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:	This column must be configured together with

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> SrcIPv6Addr. SrcIPv6Prefix. 	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 .
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column and the SrcAny column cannot both be configured.
DstAny	Whether a rule matches any destination IPv6 addresses.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 .
DstObjectGroup	Destination object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column and the DstAny column cannot both be configured.
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	N/A	Boolean: <ul style="list-style-type: none"> true—Matches any 	This column and the RoutingTypeValue

Column name	Column description	Column type	Data type and restrictions	Remarks
	types of routing header.		types of routing header. <ul style="list-style-type: none"> false—Matches the specified type of routing header (default). 	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	Members include:	N/A

Column name	Column description	Column type structure.	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> • ACK. • FIN. • PSH. • RST. • SYN. • URG. 	
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
        <SrcIPv6Prefix></SrcIPv6Prefix>
      </SrcIPv6>
      <SrcObjectGroup></SrcObjectGroup>
      <DstAny></DstAny>
      <DstIPv6>
        <DstIPv6Addr></DstIPv6Addr>
        <DstIPv6Prefix></DstIPv6Prefix>
      </DstIPv6>
      <DstObjectGroup></DstObjectGroup>
      <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. <ul style="list-style-type: none"> 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	N/A	Enumeration:	You cannot specify an

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets matching the rule.		<ul style="list-style-type: none"> 1—Deny. 2—Permit. 	<p>action when you remove or delete a rule.</p> <p>You must specify an action when you replace a rule, or when you merge or create a rule that does not exist.</p>
ProtocolType	Protocol type.	N/A	<p>Unsigned integer.</p> <p>Value range: 0 to 256.</p> <p>The value 256 represents all IPv6 protocols.</p>	<p>You cannot specify a protocol type when you remove or delete a rule.</p> <p>You must specify a protocol type when you replace a rule, or when you merge or create a rule that does not exist.</p>
SrcAny	Whether a rule matches any source IPv6 addresses.	N/A	<p>Boolean:</p> <ul style="list-style-type: none"> 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	<p>Members include:</p> <ul style="list-style-type: none"> SrcIPv6Addr. SrcIPv6Prefix. 	<p>This column must be configured together with the SrcAny column.</p> <p>The two members must both be specified.</p>
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	<p>Example: 1:1::1:1.</p> <p>This column is available when the SrcAny column is false.</p> <p>It must be empty when the SrcAny column is true.</p>
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	<p>Unsigned integer.</p> <p>Value range: 1 to 128.</p>	<p>This column is available when the SrcAny column is false.</p> <p>It must be empty when the SrcAny column is true.</p>
SrcObjectGroup	Source object group name.	N/A	<p>String, case-insensitive.</p> <p>Length: 1 to 31 characters.</p>	This column and the SrcAny column cannot both be configured.
DstAny	Whether a rule matches any destination IPv6 addresses.	N/A	<p>Boolean:</p> <ul style="list-style-type: none"> true—Matches any destination IPv6 addresses (default). false—Matches the specified destination IPv6 address. 	This column must be configured together with the DstIPv6 column.

Column name	Column description	Column type	Data type and restrictions	Remarks
DstIPv6	Destination IPv6 information.	Data structure	Members include: <ul style="list-style-type: none"> 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 .
DstObjectGroup	Destination object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	This column and the DstAny column cannot both be configured.
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: <ul style="list-style-type: none"> 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.
SrcPort	Source port information.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
SrcPortValue	End source port.	N/A	Unsigned integer.	When SrcPortOp is 5 , the

Column name	Column description	Column type	Data type and restrictions	Remarks
2			Value range: 0 to 65536.	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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • ACK. • FIN. • PSH. • RST. • SYN. • URG. 	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 0—RST flag is not set. 	Only the TCP protocol supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> • 1—RST flag is set. 	
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> ProtocolType. ProtocolTypeMask. 	The VXLAN encapsulation supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 source MAC address.	Data structure	Members include: <ul style="list-style-type: none"> 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.
InDstMACAddress	Information about the inner destination MAC address.	Data structure	Members include: <ul style="list-style-type: none"> InDstMACAddress. InDstMACMask. 	Only the VXLAN encapsulation supports this column.

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> 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 matches.	N/A	Boolean: <ul style="list-style-type: none"> 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/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. <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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	N/A	Six groups of two hexadecimal digits,	Example: ff-ff-ff-ff-ff.

Column name	Column description	Column type	Data type and restrictions	Remarks
	address.		hyphen-separated.	
DstMACAddr	Information about the destination MAC address.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> VXLAN encapsulation. GRE encapsulation. IPINIP encapsulation. 	N/A
VxlanID	VXLAN ID.	N/A	Unsigned integer	Only the VXLAN encapsulation supports

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 16777215	this column.
InSrcMACAddress	Information about the inner source MAC address.	Data structure	Members include: <ul style="list-style-type: none"> 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.
InDstMACAddress	Information about the inner destination MAC address.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	It cannot be the word all .

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 32 characters. The string must start with an English letter.	
Counting	Whether to count the rule matches.	N/A	Boolean: <ul style="list-style-type: none"> 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/PfilterIgnoreAction

This table contains information about the ignoring packet filter permit action.

XML structure

```

<ACL>
  <PfilterIgnoreAction>
    <IgnoreAction></IgnoreAction>
  </PfilterIgnoreAction>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	PfilterIgnoreAction
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
IgnoreAction	Whether to	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	ignore the packet filter permit action.		<ul style="list-style-type: none"> true—Ignore the packet filter permit action. false—Not ignore the packet filter permit action (default). 	

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: <ul style="list-style-type: none"> 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>
      <AppAclType></AppAclType>
      <AppAclGroup></AppAclGroup>
      <HardCount></HardCount>
      <InnerEncap></InnerEncap>
      <ShareMode></ShareMode>
    </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: <ul style="list-style-type: none">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. <ul style="list-style-type: none">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: <ul style="list-style-type: none">1—Inbound.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—Outbound. 	
AppAcIType	ACL type.	Index	Enumeration: <ul style="list-style-type: none"> 1—IPv4 ACL. 2—IPv6 ACL. 3—MAC ACL. 4—User-defined ACL. 5—ACL with the default action. 	<ul style="list-style-type: none"> Type 5 is a special ACL.
AppAcIGroup	ACL name or number.	Index	String. Length: 1 to 63 characters. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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.
HardCount	Whether to count rule matches in hardware for the ACL.	N/A	Enumeration: <ul style="list-style-type: none"> 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.
InnerEncap	Match the inner packet information of encapsulation packets.	N/A	Enumeration: <ul style="list-style-type: none"> 0—None (default). 1—VXLAN. 	Support for this function depends on the device model. This column cannot be modified.
ShareMode	Whether to apply the ACL in sharing mode.	N/A	Boolean: <ul style="list-style-type: none"> true—Apply the ACL in sharing mode. false—Do not apply the ACL in sharing mode (default). 	Support for this function depends on the device model. This column cannot be modified.

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>
<L5Rule>
  <L5RuleString></L5RuleString>
  <L5RuleMask></L5RuleMask>
  <L5Offset></L5Offset>
</L5Rule>
<UdfFormat></UdfFormat>
<ProtocolType></ProtocolType>
<SrcAny></SrcAny>
<SrcIPv4>
  <SrcIPv4Addr></SrcIPv4Addr>
  <SrcIPv4Wildcard></SrcIPv4Wildcard>
</SrcIPv4>
<DstAny></DstAny>
<DstIPv4>
  <DstIPv4Addr></DstIPv4Addr>
  <DstIPv4Wildcard></DstIPv4Wildcard>
</DstIPv4>
<SrcPort>
  <SrcPortOp></SrcPortOp>
  <SrcPortValue1></SrcPortValue1>
  <SrcPortValue2></SrcPortValue2>
</SrcPort>
<DstPort>
  <DstPortOp></DstPortOp>
  <DstPortValue1></DstPortValue1>

```



```

        <DstPortValue2></DstPortValue2>
    </DstPort>
    <DSCP></DSCP>
    <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> L2RuleString. L2RuleMask. L2Offset. 	The members must all be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> • 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 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • L4RuleString. • L4RuleMask. • L4Offset. 	The members must all be specified.
L4RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the	The length must be an even number.

Column name	Column description	Column type	Data type and restrictions	Remarks
			device-specific upper limit.	
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
L5Rule	Specifies that the offset is relative to the beginning of the payload.	Data structure	Members include: <ul style="list-style-type: none"> L5RuleString. L5RuleMask. L5Offset. 	This column is available when the ProtocolType is specified. The members must all be specified.
L5RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.
L5RuleMask	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.
L5Offset	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
UdfFormat	User-defined packet format.	N/A	Enumeration: <ul style="list-style-type: none"> 1—IFA packet. 2—Raw ip packet. 3—VXLAN packet. 	This column is available when the ProtocolType is specified.
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.
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches any source IP addresses (default). false—Matches the specified source IP address. 	This column is available when the ProtocolType is specified. This column must be configured together with the SrcIPv4 column.
SrcIPv4	Source IPv4 information.	Data structure	Members include: <ul style="list-style-type: none"> 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 .
DstAny	Whether a rule matches any destination IP addresses.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches any destination IP addresses (default). false—Matches the specified destination IP address. 	This column is available when the ProtocolType is specified. This column must be configured together with the DstIPv4 column.
DstIPv4	Destination IPv4 information.	Data structure	Members include: <ul style="list-style-type: none"> 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 .
SrcPort	Source port information.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				indicates that the end source port is not available.
DstPort	Destination port information.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	This column is available when the ProtocolType is specified.
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: <ul style="list-style-type: none"> 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>
  <L5Rule>
    <L5RuleString></L5RuleString>
    <L5RuleMask></L5RuleMask>
    <L5Offset></L5Offset>
  </L5Rule>
  <UdfFormat></UdfFormat>
  <ProtocolType></ProtocolType>
  <SrcAny></SrcAny>
  <SrcIPv4>
    <SrcIPv4Addr></SrcIPv4Addr>
    <SrcIPv4Wildcard></SrcIPv4Wildcard>
  </SrcIPv4>
  <DstAny></DstAny>
  <DstIPv4>
    <DstIPv4Addr></DstIPv4Addr>
    <DstIPv4Wildcard></DstIPv4Wildcard>
  </DstIPv4>
  <SrcPort>
    <SrcPortOp></SrcPortOp>
    <SrcPortValue1></SrcPortValue1>
    <SrcPortValue2></SrcPortValue2>
  </SrcPort>
  <DstPort>
    <DstPortOp></DstPortOp>

```



```

        <DstPortValue1></DstPortValue1>
        <DstPortValue2></DstPortValue2>
    </DstPort>
    <DSCP></DSCP>
    <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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
L2Rule	Specifies that the offset is relative to the beginning of the Layer 2 frame header.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 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: <ul style="list-style-type: none"> 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	Data structure	Members include: <ul style="list-style-type: none"> L4RuleString. 	The members must all be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
	of the Layer 4 header.		<ul style="list-style-type: none"> L4RuleMask. L4Offset. 	
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
L5Rule	Specifies that the offset is relative to the beginning of the payload.	Data structure	Members include: <ul style="list-style-type: none"> L5RuleString. L5RuleMask. L5Offset. 	<p>This column is available when the ProtocolType is specified.</p> <p>The members must all be specified.</p>
L5RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	The length must be an even number.
L5RuleMask	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.
L5Offset	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
UdfFormat	User-defined packet format.	N/A	Enumeration: <ul style="list-style-type: none"> 1—IFA packet. 2—Raw ip packet. 3—VXLAN packet. 	This column is available when the ProtocolType is specified.
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.
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches any source IP addresses (default). 	This column is available when the ProtocolType is specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Matches any destination IP addresses (default). false—Matches the specified destination IP address. 	This column is available when the ProtocolType is specified. This column must be configured together with the DstIPv4 column.
DstIPv4	Destination IPv4 information.	Data structure	Members include: <ul style="list-style-type: none"> 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	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available

Column name	Column description	Column type	Data type and restrictions	Remarks
	address.			when the DstAny column is false . It must be empty when the DstAny column is true .
SrcPort	Source port information.	Data structure	Members include: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				65536. The value 65536 indicates that the end destination port is not available.
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	This column is available when the ProtocolType is specified.
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: <ul style="list-style-type: none"> 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/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(-).
AcIType	ACL type.	Index	Enumeration: <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • ACL name: Case-insensitive string of 1 to 63 characters. • ACL number: An unsigned integer in the range of 2000 to 5999. 	<p>An ACL name must start with an English letter and cannot be all.</p> <p>The value range depends on the AppAcIType column.</p> <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">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>
<UserAclIPv4>
  <IPv4MaxOffset></IPv4MaxOffset>
  <IPv4MaxLen></IPv4MaxLen>
</UserAclIPv4>
<UserAclIPv6>
  <IPv6MaxOffset></IPv6MaxOffset>
  <IPv6MaxLen></IPv6MaxLen>
</UserAclIPv6>
</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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 2000 to 5999 if GroupType is 1. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> IPv6 basic ACL: 2000 to 2999. IPv6 advanced ACL: 3000 to 3999.
MatchOrder	Order in which the rules are sorted	N/A	Enumeration: <ul style="list-style-type: none"> 1—Config. 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.	N/A
Name	ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Name is 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>
      <GroupNum></GroupNum>
    </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: <ul style="list-style-type: none">• 1—IPv4.• 2—IPv6.• 3—MAC.• 4—User-defined.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupCategory	ACL Category	Index	Enumeration: <ul style="list-style-type: none"> • 0—invalid. • 1—basic. • 2—advanced. 	The value range depends on the GroupType column. <ul style="list-style-type: none"> • 1 to 2 if GroupType is 1 or 2. <ul style="list-style-type: none"> ◦ 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 2000 to 3999 if GroupType is 1. <ul style="list-style-type: none"> ◦ IPv4 basic ACL: 2000 to 2999. ◦ IPv4 advanced ACL: 3000 to 3999. • 2000 to 3999 if GroupType is 2. <ul style="list-style-type: none"> ◦ IPv6 basic ACL: 2000 to 2999. ◦ IPv6 advanced ACL: 3000 to 3999. • 4000 to 4999 if GroupType is 3. <ul style="list-style-type: none"> ◦ 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: <ul style="list-style-type: none"> • 1—Config. 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.	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
GroupNum	Number of ACLs.	N/A	Unsigned integer.	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: <ul style="list-style-type: none">• 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>
  <SrcObjectGroup></SrcObjectGroup>
  <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: <ul style="list-style-type: none"> 1—Deny. 2—Permit. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches any source IP addresses. false—Matches the specified source IP address. 	N/A
SrcIPv4	Source IPv4 information.	Data structure	Members include: <ul style="list-style-type: none"> 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 .
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches only non-first fragments. false—Matches both fragments and non-fragments. 	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: <ul style="list-style-type: none"> true—Counts the rule matches. false—Does not count the rule matches. 	N/A
Logging	Whether to log rule match events.	N/A	Boolean: <ul style="list-style-type: none"> true—Logs rule match events. false—Does not log rule match events. 	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: <ul style="list-style-type: none"> 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>
      <SrcObjectGroup></SrcObjectGroup>
      <Fragment></Fragment>
      <TimeRange></TimeRange>
      <VRF></VRF>
      <Counting></Counting>
      <Logging></Logging>
      <Comment></Comment>
      <Status></Status>
      <Count></Count>
      <MatchIndex></MatchIndex>
      <RuleNum></RuleNum>
    </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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Deny. 2—Permit. 	N/A
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches any source IP addresses. false—Matches the specified source IP address. 	N/A
SrcIPv4	Source IPv4 information.	Data structure	Members include: <ul style="list-style-type: none"> 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 .

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 .
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches only non-first fragments. false—Matches both fragments and non-fragments. 	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: <ul style="list-style-type: none"> true—Counts the rule matches. false—Does not count the rule matches. 	N/A
Logging	Whether to log rule match events.	N/A	Boolean: <ul style="list-style-type: none"> true—Logs rule match events. false—Does not log rule match events. 	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: <ul style="list-style-type: none"> 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
RuleNum	Number of rules in the ACL.	N/A	Unsigned integer. Value range: 0 to 65535.	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>
      <SrcObjectGroup></SrcObjectGroup>
      <RoutingTypeAny></RoutingTypeAny>
      <RoutingTypeValue></RoutingTypeValue>
      <Fragment></Fragment>
      <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: <ul style="list-style-type: none"> 1—Deny. 2—Permit. 	N/A
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches any source IPv6 addresses. false—Matches the specified source IPv6 address. 	N/A
SrcIPv6	Source IPv6 information.	Data structure	Members include: <ul style="list-style-type: none"> 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 .
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches any types of routing header. false—Matches the specified type of routing header. 	N/A
RoutingTypeValue	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches only non-first fragments. false—Matches both fragments and non-fragments. 	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: <ul style="list-style-type: none"> true—Counts the rule matches. false—Does not count the rule matches. 	N/A
Logging	Whether to log rule match events.	N/A	Boolean: <ul style="list-style-type: none"> true—Logs rule match events. false—Does not log rule match events. 	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: <ul style="list-style-type: none"> 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/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>
    <SrcObjectGroup></SrcObjectGroup>
    <RoutingTypeAny></RoutingTypeAny>
    <RoutingTypeValue></RoutingTypeValue>
    <Fragment></Fragment>
    <TimeRange></TimeRange>
    <VRF></VRF>
    <Counting></Counting>
    <Logging></Logging>
    <Comment></Comment>
    <Status></Status>
    <Count></Count>
    <MatchIndex></MatchIndex>
    <RuleNum></RuleNum>
</Rule>
</IPv6NamedBasicRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	IPv6NamedBasicRules
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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Deny. 2—Permit. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches any source IPv6 addresses. false—Matches the specified source IPv6 address. 	N/A
SrcIPv6	Source IPv6 information.	Data structure	Members include: <ul style="list-style-type: none"> 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 .
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches any types of routing header. false—Matches the specified type of routing header. 	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: <ul style="list-style-type: none"> true—Matches only non-first fragments. false—Matches both fragments and non-fragments. 	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

Column name	Column description	Column type	Data type and restrictions	Remarks
Counting	Whether to count the rule matches.	N/A	Boolean: <ul style="list-style-type: none"> true—Counts the rule matches. false—Does not count the rule matches. 	N/A
Logging	Whether to log rule match events.	N/A	Boolean: <ul style="list-style-type: none"> true—Logs rule match events. false—Does not log rule match events. 	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: <ul style="list-style-type: none"> 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
RuleNum	Number of rules in the ACL.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

ACL/IPv4AdvanceRules

This table contains IPv4 advanced ACL rule information.

XML structure

```

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      <RuleID></RuleID>
      <Action></Action>
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        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4Wildcard></SrcIPv4Wildcard>
      </SrcIPv4>
      <SrcObjectGroup></SrcObjectGroup>
      <DstAny></DstAny>
      <DstIPv4>
        <DstIPv4Addr></DstIPv4Addr>

```



```

    <DstIPv4Wildcard></DstIPv4Wildcard>
</DstIPv4>
<DstObjectGroup></DstObjectGroup>
<ECN></ECN>
<DSCP></DSCP>
<DSCPRange>
    <StartDSCP></StartDSCP>
    <EndDSCP></EndDSCP>
</DSCPRange>
<Precedence></Precedence>
<TOS></TOS>
<SrcPort>
    <SrcPortOp></SrcPortOp>
    <SrcPortValue1></SrcPortValue1>
    <SrcPortValue2></SrcPortValue2>
</SrcPort>
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    <DstPortOp></DstPortOp>
    <DstPortValue1></DstPortValue1>
    <DstPortValue2></DstPortValue2>
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    <FIN></FIN>
    <PSH></PSH>
    <RST></RST>
    <SYN></SYN>
    <URG></URG>
</TcpFlag>
<Established></Established>
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    <ICMPCode></ICMPCode>
</ICMP>
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<VRF></VRF>
<QoSLocalID></QoSLocalID>
<EncapType></EncapType>
<InProtocolType></InProtocolType>
<VxlanID></VxlanID>
<InSrcAny></InSrcAny>
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    <InSrcIPv4Addr></InSrcIPv4Addr>
    <InSrcIPv4Wildcard></InSrcIPv4Wildcard>
</InSrcIPv4>
<InDstAny></InDstAny>
<InDstIPv4>

```



```

    <InDstIPv4Addr></InDstIPv4Addr>
    <InDstIPv4Wildcard></InDstIPv4Wildcard>
</InDstIPv4>
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    <InSrcPortOp></InSrcPortOp>
    <InSrcPortValue1></InSrcPortValue1>
    <InSrcPortValue2></InSrcPortValue2>
</InSrcPort>
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    <InDstPortOp></InDstPortOp>
    <InDstPortValue1></InDstPortValue1>
    <InDstPortValue2></InDstPortValue2>
</InDstPort>
<InEstablished></InEstablished>
<Counting></Counting>
<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: <ul style="list-style-type: none"> 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 IPv4 protocols.	N/A
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches any source IP addresses. false—Matches the specified source IP address. 	N/A
SrcIPv4	Source IPv4 information.	Data structure	Members include: <ul style="list-style-type: none"> 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 .
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
DstIPv4	Destination IPv4 information.	Data structure	Members include: <ul style="list-style-type: none"> 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 .
DstObjectGroup	Destination object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ECN	ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	ECN and TOS cannot be specified together.
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
DSCPRange	DSCP priority range.	Data structure	Members include: <ul style="list-style-type: none"> StartDSCP EndDSCP 	DSCP and DSCPRange cannot be specified together.
StartDSCP	Start DSCP priority of a DSCP priority range.	N/A	Unsigned integer. Value range: 0 to 63.	The end DSCP must be greater than start DSCP.
EndDSCP	End DSCP priority of a DSCP priority range.	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> ACK. FIN. PSH. RST. SYN. URG. 	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Matches only non-first fragments. false—Matches both fragments and non-fragments. 	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Matches any inner source IP addresses. false—Matches the specified inner source IP address. 	N/A
InSrcIPv4	Inner source IPv4 information.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Matches any inner destination IP addresses. false—Matches the specified inner destination IP address. 	N/A
InDstIPv4	Inner destination IPv4 information.	Data structure	Members include: <ul style="list-style-type: none"> 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.	<p>Example: 1.1.1.1.</p> <p>This column is available when the InDstAny column is false.</p> <p>It must be empty when the InDstAny column is true.</p>
InDstIPv4Wildcard	Wildcard mask for the inner destination IPv4 address.	N/A	String, dotted decimal notation.	<p>Example: 255.255.255.0.</p> <p>This column is available when the InDstAny column is false.</p> <p>It must be empty when the InDstAny column is true.</p>
InSrcPort	Inner source port information.	Data structure	<p>Members include:</p> <ul style="list-style-type: none"> InSrcPortOp. InSrcPortValue1. InSrcPortValue2. 	<p>Only the TCP and UDP inner protocols support this column.</p> <p>The members must be all specified.</p>
InSrcPortOp	Inner source port operator.	N/A	<p>Boolean:</p> <ul style="list-style-type: none"> 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	<p>Unsigned integer.</p> <p>Value range: 0 to 65535.</p>	N/A
InSrcPortValue2	End inner source port.	N/A	<p>Unsigned integer.</p> <p>Value range: 0 to 65536.</p>	<p>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.</p>
InDstPort	Inner destination port information.	Data structure	<p>Members include:</p> <ul style="list-style-type: none"> InDstPortOp. InDstPortValue1. InDstPortValue2. 	<p>Only the TCP and UDP inner protocols support this column.</p> <p>The members must be all specified.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
InDstPortOp	Inner destination port operator.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Counts the rule matches. false—Does not count the rule matches. 	N/A
Logging	Whether to log rule match events.	N/A	Boolean: <ul style="list-style-type: none"> true—Logs rule match events. false—Does not log rule match events. 	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: <ul style="list-style-type: none"> 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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        <SrcIPv4Wildcard></SrcIPv4Wildcard>
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      <SrcObjectGroup></SrcObjectGroup>
      <DstAny></DstAny>
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        <DstIPv4Addr></DstIPv4Addr>
        <DstIPv4Wildcard></DstIPv4Wildcard>
      </DstIPv4>
      <DstObjectGroup></DstObjectGroup>
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      <DSCP></DSCP>
      <DSCPRange>
        <StartDSCP></StartDSCP>
        <EndDSCP></EndDSCP>
      </DSCPRange>
      <Precedence></Precedence>
      <TOS></TOS>
      <SrcPort>
        <SrcPortOp></SrcPortOp>
        <SrcPortValue1></SrcPortValue1>
        <SrcPortValue2></SrcPortValue2>
      </SrcPort>
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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>
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    </InSrcIPv4>
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    </InDstPort>
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    <Counting></Counting>
    <Logging></Logging>
    <Comment></Comment>
    <Status></Status>
    <Count></Count>
    <MatchIndex></MatchIndex>
    <RuleNum></RuleNum>
</Rule>
</IPv4NamedAdvanceRules>
</ACL>

```


Table description

Item	Description
Feature name	ACL
Table name	IPv4NamedAdvanceRules
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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Matches any source IP addresses. false—Matches the specified source IP address. 	N/A
SrcIPv4	Source IPv4 information.	Data structure	Members include: <ul style="list-style-type: none"> 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 .

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 .
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
DstAny	Whether a rule matches any destination IP addresses.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches any destination IP addresses. false—Matches the specified destination IP address. 	N/A
DstIPv4	Destination IPv4 information.	Data structure	Members include: <ul style="list-style-type: none"> 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 .
DstObjectGroup	Destination object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
ECN	ECN flag.	N/A	Unsigned integer. Value range: 0 to 3.	ECN and TOS cannot be specified together.
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
DSCPRange	DSCP priority range.	Data structure	Members include: <ul style="list-style-type: none"> StartDSCP EndDSCP 	DSCP and DSCPRange cannot be specified together.
StartDSCP	Start DSCP priority of a DSCP priority range.	N/A	Unsigned integer. Value range: 0 to 63.	The end DSCP must be greater than start DSCP.

Column name	Column description	Column type	Data type and restrictions	Remarks
EndDSCP	End DSCP priority of a DSCP priority range.	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
TcpFlag	TCP flags.	Data structure	Members include: <ul style="list-style-type: none"> • ACK. • FIN. • PSH. • RST. • SYN. • URG. 	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> true—Matches only non-first fragments. false—Matches both fragments and non-fragments. 	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Matches any inner source IP addresses. false—Matches the specified inner source IP address. 	N/A
InSrcIPv4	Inner source IPv4 information.	Data structure	Members include: <ul style="list-style-type: none"> InSrcIPv4Addr. InSrcIPv4Wildcard. 	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
InSrcIPv4Addr	Inner source IPv4 address.	N/A	String, dotted decimal notation.	<p>Example: 1.1.1.1.</p> <p>This column is available when the InSrcAny column is false.</p> <p>It must be empty when the InSrcAny column is true.</p>
InSrcIPv4Wildcard	Wildcard mask for the inner source IPv4 address.	N/A	String, dotted decimal notation.	<p>Example: 255.255.255.0.</p> <p>This column is available when the InSrcAny column is false.</p> <p>It must be empty when the InSrcAny column is true.</p>
InDstAny	Whether a rule matches any inner destination IP addresses.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches any inner destination IP addresses. false—Matches the specified inner destination IP address. 	N/A
InDstIPv4	Inner destination IPv4 information.	Data structure	Members include: <ul style="list-style-type: none"> InDstIPv4Addr. InDstIPv4Wildcard. 	<p>Only the VXLAN encapsulation supports this column.</p> <p>The two members must both be specified.</p>
InDstIPv4Addr	Inner destination IPv4 address.	N/A	String, dotted decimal notation.	<p>Example: 1.1.1.1.</p> <p>This column is available when the InDstAny column is false.</p> <p>It must be empty when the InDstAny column is true.</p>
InDstIPv4Wildcard	Wildcard mask for the inner destination IPv4 address.	N/A	String, dotted decimal notation.	<p>Example: 255.255.255.0.</p> <p>This column is available when the InDstAny column is false.</p> <p>It must be empty when the InDstAny column is true.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
InSrcPort	Inner source port information.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
InEstablished	Whether a rule matches flags indicating the inner established status of a TCP connection.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Counts the rule matches. false—Does not count the rule matches. 	N/A
Logging	Whether to log rule match events.	N/A	Boolean: <ul style="list-style-type: none"> true—Logs rule match events. false—Does not log rule match events. 	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: <ul style="list-style-type: none"> 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
RuleNum	Number of rules in the ACL.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

ACL/IPv6AdvanceRules

This table contains IPv6 advanced ACL rule information.

XML structure

```

<ACL>
  <IPv6AdvanceRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <ProtocolType></ProtocolType>
      <SrcAny></SrcAny>
      <SrcIPv6>
        <SrcIPv6Addr></SrcIPv6Addr>
      </SrcIPv6>
    </Rule>
  </IPv6AdvanceRules>
</ACL>

```



```

    <SrcIPv6Prefix></SrcIPv6Prefix>
</SrcIPv6>
<SrcObjectGroup></SrcObjectGroup>
<DstAny></DstAny>
<DstIPv6>
    <DstIPv6Addr></DstIPv6Addr>
    <DstIPv6Prefix></DstIPv6Prefix>
</DstIPv6>
<DstObjectGroup></DstObjectGroup>
<DSCP></DSCP>
<FlowLabel></FlowLabel>
<RoutingTypeAny></RoutingTypeAny>
<RoutingTypeValue></RoutingTypeValue>
<SrcPort>
    <SrcPortOp></SrcPortOp>
    <SrcPortValue1></SrcPortValue1>
    <SrcPortValue2></SrcPortValue2>
</SrcPort>
<DstPort>
    <DstPortOp></DstPortOp>
    <DstPortValue1></DstPortValue1>
    <DstPortValue2></DstPortValue2>
</DstPort>
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    <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Matches any source IPv6 addresses. false—Matches the specified source IPv6 address. 	N/A
SrcIPv6	Source IPv6 information.	Data structure	Members include: <ul style="list-style-type: none"> 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 .

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 .
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
DstAny	Whether a rule matches any destination IPv6 addresses.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches any destination IPv6 addresses. false—Matches the specified destination IPv6 address. 	N/A
DstIPv6	Destination IPv6 information.	Data structure	Members include: <ul style="list-style-type: none"> 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 .
DstObjectGroup	Destination object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
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: <ul style="list-style-type: none"> true—Matches any types of routing header. false—Matches the specified type of routing header. 	N/A
RoutingTypeValue	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPort	Source port information.	Data structure	Members include: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
TcpFlag	TCP flags.	Data structure	Members include: <ul style="list-style-type: none"> • ACK. • FIN. • PSH. • RST. • SYN. • URG. 	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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
ICMP6	ICMPv6 messages.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Matches only non-first fragments. false—Matches both fragments and non-fragments. 	N/A
HopTypeAny	Whether a rule matched any types of Hop-by-Hop Options header.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches any types of Hop-by-Hop Options header. false—Matches the specified type of Hop-by-Hop Options header. 	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: <ul style="list-style-type: none"> true—Counts the rule matches. false—Does not count the rule matches. 	N/A
Logging	Whether to log rule match events.	N/A	Boolean: <ul style="list-style-type: none"> true—Logs rule match events. false—Does not log rule match events. 	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: <ul style="list-style-type: none"> 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>
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        <SrcIPv6Prefix></SrcIPv6Prefix>
      </SrcIPv6>
      <SrcObjectGroup></SrcObjectGroup>
      <DstAny></DstAny>
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        <DstIPv6Addr></DstIPv6Addr>
        <DstIPv6Prefix></DstIPv6Prefix>
      </DstIPv6>
      <DstObjectGroup></DstObjectGroup>
      <DSCP></DSCP>
      <FlowLabel></FlowLabel>
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      <RoutingTypeValue></RoutingTypeValue>
      <SrcPort>
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        <SrcPortValue1></SrcPortValue1>
        <SrcPortValue2></SrcPortValue2>

```



```

</SrcPort>
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  <DstPortOp></DstPortOp>
  <DstPortValue1></DstPortValue1>
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  <RST></RST>
  <SYN></SYN>
  <URG></URG>
</TcpFlag>
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<ICMP6>
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  <ICMP6Code></ICMP6Code>
</ICMP6>
<Fragment></Fragment>
<HopTypeAny></HopTypeAny>
<HopTypeValue></HopTypeValue>
<TimeRange></TimeRange>
<VRF></VRF>
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<Logging></Logging>
<Comment></Comment>
<Status></Status>
<Count></Count>
<MatchIndex></MatchIndex>
<RuleNum></RuleNum>
</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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Matches any source IPv6 addresses. false—Matches the specified source IPv6 address. 	N/A
SrcIPv6	Source IPv6 information.	Data structure	Members include: <ul style="list-style-type: none"> 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 .
SrcObjectGroup	Source object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DstAny	Whether a rule matches any destination IPv6 addresses.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches any destination IPv6 addresses. false—Matches the specified destination IPv6 address. 	N/A
DstIPv6	Destination IPv6 information.	Data structure	Members include: <ul style="list-style-type: none"> 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 .
DstObjectGroup	Destination object group name.	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A
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: <ul style="list-style-type: none"> true—Matches any types of routing header. false—Matches the specified type of routing header. 	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: <ul style="list-style-type: none"> SrcPortOp. SrcPortValue1. SrcPortValue2. 	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
SrcPortOp	Source port operator.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> ACK. FIN. PSH. RST. SYN. URG. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> true—Matches only non-first fragments. false—Matches both fragments and non-fragments. 	N/A
HopTypeAny	Whether a rule matched any types of Hop-by-Hop Options header.	N/A	Boolean: <ul style="list-style-type: none"> true—Matches any types of Hop-by-Hop Options header. false—Matches the specified type of Hop-by-Hop Options header. 	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: <ul style="list-style-type: none"> true—Counts the rule matches. false—Does not count the rule matches. 	N/A
Logging	Whether to log rule match events.	N/A	Boolean: <ul style="list-style-type: none"> true—Logs rule match events. false—Does not log rule match events. 	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Rule status.	N/A	Enumeration: <ul style="list-style-type: none"> 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
RuleNum	Number of rules in the ACL.	N/A	Unsigned integer. Value range: 0 to 65535.	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>
    </Rule>
  </MACRules>
</ACL>

```



```

</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: <ul style="list-style-type: none"> 1—Deny. 2—Permit. 	N/A
SrcMACAddr	Information about the source MAC address.	Data structure	Members include: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> InSrcMACAddress. InSrcMACMask. 	Only the VXLAN encapsulation supports this column. The members must

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	N/A
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.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: <ul style="list-style-type: none"> true—Counts the rule matches. false—Does not count the rule matches. 	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Rule status.	N/A	Enumeration: <ul style="list-style-type: none"> 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>
      <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>
  <RuleNum></RuleNum>
</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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Deny. 2—Permit. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcMACAddr	Information about the source MAC address.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
InSrcMACAddr	Information about the inner source MAC address.	Data structure	Members include: <ul style="list-style-type: none"> 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.
InDstMACAddr	Information about the inner destination MAC address.	Data structure	Members include: <ul style="list-style-type: none"> 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.
InProtocol	Inner link layer protocol.	Data structure	Members include: <ul style="list-style-type: none"> 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.	N/A
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.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Counting	Whether to count the rule matches.	N/A	Boolean: <ul style="list-style-type: none"> true—Counts the rule matches. false—Does not count the rule matches. 	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: <ul style="list-style-type: none"> 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
RuleNum	Number of rules in the ACL.	N/A	Unsigned integer. Value range: 0 to 65535.	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: <ul style="list-style-type: none">• 1—Permit.• 2—Deny.

ACL/PfilterIgnoreAction

This table contains information about the ignoring the packet filter permit action.

XML structure

```
<ACL>
  <PfilterIgnoreAction>
    <IgnoreAction></IgnoreAction>
  </PfilterIgnoreAction>
</ACL>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IgnoreAction	Whether to the ignore packet filter permit action.	N/A	Boolean: <ul style="list-style-type: none">• true—Ignore the packet filter permit action.• false—Not ignore the packet filter permit action.	N/A

ACL/PfilterApply

This table contains information about packet filter application.

XML structure

```
<ACL>
  <PfilterApply>
    <Pfilter>
      <AppObjType></AppObjType>
      <AppObjIndex></AppObjIndex>
      <AppDirection></AppDirection>
      <AppAclType></AppAclType>
      <AppAclGroup></AppAclGroup>
      <HardCount></HardCount>
      <InnerEncap></InnerEncap>
      <ShareMode></ShareMode>
      <AppSequence></AppSequence>
    </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: <ul style="list-style-type: none">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. <ul style="list-style-type: none">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.

Column name	Column description	Column type	Data type and restrictions	Remarks
AppDirection	Application direction.	Index	Enumeration: <ul style="list-style-type: none"> 1—Inbound. 2—Outbound. 	N/A
AppAcIType	ACL type.	Index	Enumeration: <ul style="list-style-type: none"> 1—IPv4 ACL. 2—IPv6 ACL. 3—MAC ACL. 4—User-defined ACL. 5—ACL with the default action. 	<ul style="list-style-type: none"> Type 5 is a special ACL.
AppAcIGroup	ACL name or number.	Index	String. Length: 1 to 63 characters. <ul style="list-style-type: none"> 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 AppAcIType column. <ul style="list-style-type: none"> 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.
HardCount	Whether to count rule matches in hardware for the ACL.	N/A	Enumeration: <ul style="list-style-type: none"> 1—enable. 2—disable. 	N/A
InnerEncap	Match the inner packet information of encapsulation packets.	N/A	Enumeration: <ul style="list-style-type: none"> 0—None. 1—VXLAN. 	N/A
ShareMode	Whether to apply the ACL in sharing mode.	N/A	Boolean: <ul style="list-style-type: none"> true—Apply the ACL in sharing mode. false—Do not apply the ACL in sharing mode. 	N/A
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>
    <AppAclType></AppAclType>
    <AppAclGroup></AppAclGroup>
    <AclGroupStatus></AclGroupStatus>
    <AclGroupCountStatus></AclGroupCountStatus>
    <AclGroupPermitPkts></AclGroupPermitPkts>
    <AclGroupPermitBytes></AclGroupPermitBytes>
    <AclGroupDenyPkts></AclGroupDenyPkts>
    <AclGroupDenyBytes></AclGroupDenyBytes>
  </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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Inbound. 2—Outbound. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AppAcIType	ACL type.	Index	Enumeration: <ul style="list-style-type: none"> 1—IPv4 ACL. 2—IPv6 ACL. 3—MAC ACL. 4—User-defined ACL. 5—ACL with the default action. 	<ul style="list-style-type: none"> Type 5 is a special ACL. The default action can be the default MAC action, default IPv4 action, or default IPv6 action.
AppAcIGroup	ACL name or number.	Index	String. Length: 1 to 63 characters. <ul style="list-style-type: none"> 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. 	<p>The value depends on the AppAcIType column.</p> <ul style="list-style-type: none"> 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. 1 if AppAcIType is 4 and the default action is default MAC action. 2 if AppAcIType is 4 and the default action is default IPv4 action. 3 if AppAcIType is 4 and the default action is default IPv6 action.
AcIGroupStatus	Whether an ACL is successfully applied.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Succeeded. 2—Failed. 3—Partly succeeded. 	N/A
AcIGroupCountStatus	Whether an ACL with hardware counting enabled is successfully applied.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Succeeded. 2—Failed. 3—Partly succeeded. 	N/A
AcIGroupPermitPackets	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, 0xFFFFFFFFFFFFFFFF is returned.
AcIGroupPermitBytes	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, 0xFFFFFFFFFFFFFFFF is returned.
AcIGroupDenyPackets	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, 0xFFFFFFFFFFFFFFFF is returned.

Column name	Column description	Column type	Data type and restrictions	Remarks
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, 0xFFFFFFFFFFFFFFFF 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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Inbound. 2—Outbound. 	N/A
AppAclType	ACL type.	Index	Enumeration: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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.
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: <ul style="list-style-type: none"> 1—Succeeded. 2—Failed. 3—Partly succeeded. 	N/A
AclRuleCountStatus	Whether an ACL rule with hardware counting enabled is successfully applied.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Succeeded. 2—Failed. 3—Partly succeeded. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 1—Inbound. 2—Outbound. 	N/A
AcIType	ACL type	Index	Enumeration: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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>
    </Rule>
  </UserRules>
</ACL>

```



```

<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>
<L5Rule>
  <L5RuleString></L5RuleString>
  <L5RuleMask></L5RuleMask>
  <L5Offset></L5Offset>
</L5Rule>
<UdfFormat></UdfFormat>
<ProtocolType></ProtocolType>
<SrcAny></SrcAny>
<SrcIPv4>
  <SrcIPv4Addr></SrcIPv4Addr>
  <SrcIPv4Wildcard></SrcIPv4Wildcard>
</SrcIPv4>
<DstAny></DstAny>
<DstIPv4>
  <DstIPv4Addr></DstIPv4Addr>
  <DstIPv4Wildcard></DstIPv4Wildcard>
</DstIPv4>
<SrcPort>
  <SrcPortOp></SrcPortOp>
  <SrcPortValue1></SrcPortValue1>
  <SrcPortValue2></SrcPortValue2>
</SrcPort>
<DstPort>
  <DstPortOp></DstPortOp>
  <DstPortValue1></DstPortValue1>
  <DstPortValue2></DstPortValue2>
</DstPort>
<DSCP></DSCP>

```



```

    <TimeRange></TimeRange>
    <Counting></Counting>
    <Comment></Comment>
    <Status></Status>
    <Count></Count>
  </Rule>
</UserRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL
Table name	UserRules
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Rule	Specifies that the offset is relative to the beginning of the IPv4 header.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
L5Rule	Specifies that the offset is relative to the beginning of the payload.	Data structure	Members include: <ul style="list-style-type: none"> L5RuleString. L5RuleMask. L5Offset. 	The members must all be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
L5RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L5RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L5Offset	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
UdfFormat	User-defined packet format.	N/A	Enumeration: <ul style="list-style-type: none"> 1—IFA packet. 2—Raw ip packet. 3—VXLAN packet. 	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: <ul style="list-style-type: none"> true—Matches any source IP addresses. false—Matches the specified source IP address. 	N/A
SrcIPv4	Source IPv4 information.	Data structure	Members include: <ul style="list-style-type: none"> 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 .

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.	<p>Example: 255.255.255.0.</p> <p>This column is available when the SrcAny column is false.</p> <p>It must be empty when the SrcAny column is true.</p>
DstAny	Whether a rule matches any destination IP addresses.	N/A	<p>Boolean:</p> <ul style="list-style-type: none"> • true—Matches any destination IP addresses. • false—Matches the specified destination IP address. 	N/A
DstIPv4	Destination IPv4 information.	Data structure	<p>Members include:</p> <ul style="list-style-type: none"> • DstIPv4Addr. • DstIPv4Wildcard. 	The members must both be specified.
DstIPv4Addr	Destination IPv4 address.	N/A	String, dotted decimal notation.	<p>Example: 1.1.1.1.</p> <p>This column is available when the DstAny column is false.</p> <p>It must be empty when the DstAny column is true.</p>
DstIPv4Wildcard	Wildcard mask for the destination IPv4 address.	N/A	String, dotted decimal notation.	<p>Example: 255.255.255.0.</p> <p>This column is available when the DstAny column is false.</p> <p>It must be empty when the DstAny column is true.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPort	Source port information.	Data structure	Members include: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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.
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	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: <ul style="list-style-type: none"> true—Counts the rule matches. false—Does not count the rule matches. 	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: <ul style="list-style-type: none"> 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>
    </Rule>
  </UserNamedRules>
</ACL>

```



```

<IPv4Rule>
  <IPv4RuleString></IPv4RuleString>
  <IPv4RuleMask></IPv4RuleMask>
  <IPv4Offset></IPv4Offset>
</IPv4Rule>
<IPv6Rule>
  <IPv6RuleString></IPv6RuleString>
  <IPv6RuleMask></IPv6RuleMask>
  <IPv6Offset></IPv6Offset>
</IPv6Rule>
<L4Rule>
  <L4RuleString></L4RuleString>
  <L4RuleMask></L4RuleMask>
  <L4Offset></L4Offset>
</L4Rule>
<L5Rule>
  <L5RuleString></L5RuleString>
  <L5RuleMask></L5RuleMask>
  <L5Offset></L5Offset>
</L5Rule>
<UdfFormat></UdfFormat>
<ProtocolType></ProtocolType>
<SrcAny></SrcAny>
<SrcIPv4>
  <SrcIPv4Addr></SrcIPv4Addr>
  <SrcIPv4Wildcard></SrcIPv4Wildcard>
</SrcIPv4>
<DstAny></DstAny>
<DstIPv4>
  <DstIPv4Addr></DstIPv4Addr>
  <DstIPv4Wildcard></DstIPv4Wildcard>
</DstIPv4>
<SrcPort>
  <SrcPortOp></SrcPortOp>
  <SrcPortValue1></SrcPortValue1>
  <SrcPortValue2></SrcPortValue2>
</SrcPort>
<DstPort>
  <DstPortOp></DstPortOp>
  <DstPortValue1></DstPortValue1>
  <DstPortValue2></DstPortValue2>
</DstPort>
<DSCP></DSCP>
<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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Rule	Specifies that the offset is relative to the beginning of the IPv4 header.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
L5Rule	Specifies that the offset is relative to the beginning of the payload.	Data structure	Members include: <ul style="list-style-type: none"> L5RuleString. L5RuleMask. L5Offset. 	The members must all be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
L5RuleString	String for the match pattern.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L5RuleMask	Match pattern mask.	N/A	Hexadecimal string. Length: 2 to the device-specific upper limit.	N/A
L5Offset	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
UdfFormat	User-defined packet format.	N/A	Enumeration: <ul style="list-style-type: none"> 1—IFA packet. 2—Raw ip packet. 3—VXLAN packet. 	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: <ul style="list-style-type: none"> true—Matches any source IP addresses. false—Matches the specified source IP address. 	N/A
SrcIPv4	Source IPv4 information.	Data structure	Members include: <ul style="list-style-type: none"> 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 .

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.	<p>Example: 255.255.255.0.</p> <p>This column is available when the SrcAny column is false.</p> <p>It must be empty when the SrcAny column is true.</p>
DstAny	Whether a rule matches any destination IP addresses.	N/A	<p>Boolean:</p> <ul style="list-style-type: none"> • true—Matches any destination IP addresses. • false—Matches the specified destination IP address. 	N/A
DstIPv4	Destination IPv4 information.	Data structure	<p>Members include:</p> <ul style="list-style-type: none"> • DstIPv4Addr. • DstIPv4Wildcard. 	The members must both be specified.
DstIPv4Addr	Destination IPv4 address.	N/A	String, dotted decimal notation.	<p>Example: 1.1.1.1.</p> <p>This column is available when the DstAny column is false.</p> <p>It must be empty when the DstAny column is true.</p>
DstIPv4Wildcard	Wildcard mask for the destination IPv4 address.	N/A	String, dotted decimal notation.	<p>Example: 255.255.255.0.</p> <p>This column is available when the DstAny column is false.</p> <p>It must be empty when the DstAny column is true.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPort	Source port information.	Data structure	Members include: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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.
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	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: <ul style="list-style-type: none"> true—Counts the rule matches. false—Does not count the rule matches. 	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: <ul style="list-style-type: none"> 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>
      <AclType></AclType>
      <AclGroup></AclGroup>
      <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. <ul style="list-style-type: none">Length: 1 to 31 characters.	Cannot contain midline(-).
DestZone	Name of the destination zone.	Index	String, case insensitive. <ul style="list-style-type: none">Length: 1 to 31 characters.	Cannot contain midline(-).
AcIType	ACL type.	Index	Enumeration: <ul style="list-style-type: none">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	<ul style="list-style-type: none">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. <ul style="list-style-type: none">2000 to 5999 if AppAcIType is 1.2000 to 3999 if AppAcIType is 2.
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>
  <AclType></AclType>
  <AclGroup></AclGroup>
  <AclRuleID></AclRuleID>
  <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. <ul style="list-style-type: none"> Length: 1 to 31 characters. 	Cannot contain midline(-).
DestZone	Name of the destination zone.	Index	String, case insensitive. <ul style="list-style-type: none"> Length: 1 to 31 characters. 	Cannot contain midline(-).
AclType	ACL type.	Index	Enumeration: <ul style="list-style-type: none"> 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.
AclGroup	ACL name or number.	Index	<ul style="list-style-type: none"> ACL name: Case-insensitive string of 1 to 63 characters. ACL number: An unsigned integer in the range of 2000 to 5999. 	<p>An ACL name must start with an English letter and cannot be all.</p> <p>The value range depends on the AppAclType column.</p> <ul style="list-style-type: none"> 2000 to 5999 if AppAclType is 1. 2000 to 3999 if AppAclType is 2.

Column name	Column description	Column type	Data type and restrictions	Remarks
AclRuleID	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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ACL

ACL

Message	Explanation
Can't edit rules for an ACL when the match order is auto. 当规则匹配顺序为自动排序时，不能修改规则。	The ACL group created in auto mode cannot modify rules. 以 auto 形式创建的 ACL 组不能修改规则。
The rule doesn't exist. Please create the rule first. 规则不存在，请在添加描述信息前先添加规则。	Cannot add rule comment information when the rule does not exist. 规则不存在时不能添加规则评论信息。
Can't name or rename an existing ACL. 不能命名或重命名一个已存在的ACL。	Cannot modify the name as an existing ACL. 不能修改名字为已存在的ACL。
Can't change the match order for an ACL that contains rules. 不能修改一个包含规则的ACL的匹配顺序。	When an ACL is configured with rules, the matching order cannot be modified. 当ACL已经配置了规则，不能修改匹配顺序。
The rule already exists. 规则已存在。	The newly created rule content is the same as other existing rules. 新建的规则内容与其他已存在的规则内容相同。
The rule ID is out of range. 规则编号超出范围。	Automatically assigned rule number is out of range. 自动分配的规则编码超出了范围。
The step is too large to generate sufficient rule IDs. 步长过大，可分配的规则编号不足。	The modified step size is too large, and the number of rules that can be assigned is insufficient. 修改后的步长过大，可分配的规则编号不足。
The name is already used by another ACL. 该名字已被另一个ACL使用。	The newly created ACL name is occupied by other existing ACLs. 新建的ACL名称被其他已经存在的ACL占用。
Maximum number of rules in the ACL already is reached. 此ACL的规则数已达上限。	The number of rules has reached the upper limit when a new ACL rule is created. 新建ACL规则时规则个数已达到上限。
Resources are insufficient for processing the request. 系统资源不足，请求无法完成。	Insufficient memory. 设备内存不足。
The ACL doesn't exist. 指定的ACL不存在。	Add a rule to an ACL group that does not exist. 向不存在的ACL组下添加规则。
The source IPv4 address object group doesn't exist. 指定的源IPv4地址对象组不存在。	The object-group referenced by the source address of the IPv4 type ACL rule does not exist. IPv4类型ACL规则源地址引用的对象组不存在。
The source IPv6 address object group doesn't exist. 指定的源IPv6地址对象组不存在。	The object-group referenced by the source address of the IPv6 type ACL rule does not exist. IPv6类型ACL规则源地址引用的对象组不存在。
The destination IPv4 address object group doesn't exist. 指定的目的IPv4地址对象组不存在。	The object-group referenced by the destination address of the IPv4 type ACL rule does not exist. IPv4类型ACL规则目的地址引用的对象组不存在。

<p>The destination IPv6 address object group doesn't exist.</p> <p>指定的目的IPv6地址对象组不存在。</p>	<p>The object-group referenced by the destination address of the IPv6 type ACL rule does not exist.</p> <p>IPv6类型ACL规则目的地址引用的对象组不存在。</p>
<p>Illegal source IPv4 address object group type.</p> <p>指定的源IPv4地址对象组类型不正确。</p>	<p>The object-group type referenced by the source address of the IPv4 type ACL is not the IPv4 type.</p> <p>IPv4类型ACL规则源地址引用的对象组类型不是IPv4类型。</p>
<p>Illegal source IPv6 address object group type.</p> <p>指定的源IPv6地址对象组类型不正确。</p>	<p>The object-group type referenced by the source address of the IPv6 type ACL is not the IPv6 type.</p> <p>IPv6类型ACL规则源地址引用的对象组类型不是IPv6类型。</p>
<p>Illegal destination IPv4 address object group type.</p> <p>指定的目的IPv4地址对象组类型不正确。</p>	<p>The object-group type referenced by the destination address of the IPv4 type ACL is not the IPv4 type.</p> <p>IPv4类型ACL规则目的地址引用的对象组类型不是IPv4类型。</p>
<p>Illegal destination IPv6 address object group type.</p> <p>指定的目的IPv6地址对象组类型不正确。</p>	<p>The object-group type referenced by the destination address of the IPv6 type ACL is not the IPv6 type.</p> <p>IPv6类型ACL规则目的地址引用的对象组类型不是IPv6类型。</p>
<p>Can't delete the ACL because it is being used.</p> <p>该ACL正被引用，无法删除。</p>	<p>The ACL specified to be deleted is referenced by other modules and cannot be deleted.</p> <p>指定要删除的ACL被其他模块引用，不能被删除。</p>

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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 <ul style="list-style-type: none">4—IPv46—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 <ul style="list-style-type: none">4—IPv46—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 <ul style="list-style-type: none"> 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 <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	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
	tunnel interface			
Compatible	Compatibility configuration	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
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>
      <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
PublicAddresses	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: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> true False 	N/A
SessionType	ADVPN tunnel type	N/A	Enumeration: <ul style="list-style-type: none"> 0—Unknown 1—Hub-Hub 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—Hub-Spoke 3—Spoke-Hub 4—Spoke-Spoke 	
TunnelState	ADVPN tunnel state	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> TotalPackets DataPackets ControlPackets Multicasts Errors 	N/A
TotalPackets	The number of all incoming packets	N/A	Unsigned Integer64	N/A
DataPackets	The number of incoming data packets	N/A	Unsigned Integer64	N/A
ControlPackets	The number of incoming control packets	N/A	Unsigned integer 64	N/A
Multicasts	The number of incoming multicast packets	N/A	Unsigned integer 64	N/A
Errors	The number of incoming erroneous packets	N/A	Unsigned integer 64	N/A
Output	Statistics for outgoing packets	Data structure	Members include: <ul style="list-style-type: none"> TotalPackets DataPackets ControlPackets Multicasts 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> Errors 	
TotalPackets	The number of all outgoing packets	N/A	Unsigned integer	N/A
DataPackets	The number of outgoing data packets	N/A	Unsigned integer 64	N/A
ControlPackets	The number of outgoing control packets	N/A	Unsigned integer 64	N/A
Multicasts	The number of outgoing multicast packets	N/A	Unsigned integer 64.	N/A
Errors	The number of outgoing erroneous packets	N/A	Unsigned integer 64	N/A

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>
    </Input>
  </IPv6AdvpnSession>
</IPv6TunnelAdvpnSession>

```



```

    <ControlPackets></ControlPackets>
    <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
PublicAddresses	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: <ul style="list-style-type: none"> AhInbound AhOutbound 	Only supported when the link layer protocol is

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> EspInbound EspOutbound 	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
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: <ul style="list-style-type: none"> true False 	N/A
SessionType	ADVPN tunnel type	N/A	Enumeration: <ul style="list-style-type: none"> 0—Unknown 1—Hub-Hub 2—Hub-Spoke 3—Spoke-Hub 4—Spoke-Spoke 	N/A
TunnelState	ADVPN tunnel state	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> TotalPackets DataPackets ControlPackets Multicasts Errors 	N/A
TotalPackets	The number of all incoming packets	N/A	Unsigned integer 64	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DataPackets	The number of incoming data packets	N/A	Unsigned integer 64	N/A
ControlPackets	The number of incoming control packets	N/A	Unsigned integer 64	N/A
Multicasts	The number of incoming multicast packets	N/A	Unsigned integer 64	N/A
Errors	The number of incoming erroneous packets	N/A	Unsigned integer 64	N/A
Output	Statistics for outgoing packets	Data structure	Members include: <ul style="list-style-type: none"> • TotalPackets • DataPackets • ControlPackets • Multicasts • Errors 	N/A
TotalPackets	The number of all outgoing packets	N/A	Unsigned integer 64	N/A
DataPackets	The number of outgoing data packets	N/A	Unsigned integer 64	N/A
ControlPackets	The number of outgoing control packets	N/A	Unsigned integer 64	N/A
Multicasts	The number of outgoing multicast packets	N/A	Unsigned integer 64.	N/A
Errors	The number of outgoing erroneous packets	N/A	Unsigned integer 64	N/A

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
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: <ul style="list-style-type: none">0—Unknown1—GRE	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—UDP 3—IPsec-GRE 4—IPsec-UDP 	
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: <ul style="list-style-type: none"> 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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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		<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">true—YESfalse—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: <ul style="list-style-type: none">true—YESfalse—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			<p>they are the same, the group member has only one IP address.</p> <p>The IP addresses of address members on the device must not overlap.</p> <p>The source address in a packet destined for an external network is translated into an address in one of group members.</p>
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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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Columns.....	2
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XML structure.....	2
Table description.....	3
Columns.....	3
AFT/AftFlowEnd.....	3
XML structure.....	3
Table description.....	3
Columns.....	4
AFT/AftPrefixNat64.....	4
XML structure.....	4
Table description.....	4
Columns.....	4
AFT/AftAddressGroup.....	5
XML structure.....	5
Table description.....	5
Columns.....	5
AFT/AftAddressGroupMember.....	5
XML structure.....	5
Table description.....	6
Columns.....	6
AFT/AftV6toV4SrcDynamicAcl.....	6
XML structure.....	7
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: <ul style="list-style-type: none">true—YESfalse—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: <ul style="list-style-type: none">true—YESfalse—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: <ul style="list-style-type: none">true—YESfalse—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: <ul style="list-style-type: none">true—YESfalse—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>
    </GroupMembers>
  </AftAddressGroupMember>
</AFT>
```



```

    <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.	<p>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.</p> <p>The IP addresses of address members on the device must not overlap.</p> <p>The source address in a packet destined for an external network is translated into an address in one of group members.</p>
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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> • 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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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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> • true: rollback last version • false: rollback original version 	N/A

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XML structure	7
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XML structure	7
Table description	8
Columns	8

AntiVirus

AntiVirus/Policies

This table contains AntiVirus policy.

XML structure

```
<AntiVirus>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <Description></Description>
      <CloudQuery></CloudQuery>
    </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
CloudQuery	Enabling status of cloud querying	N/A	Enumeration: <ul style="list-style-type: none">1—Enabled.2—Disabled.	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: <ul style="list-style-type: none"> ProtocolName Direction Action 	N/A
ProtocolName	Protocol name	N/A	String: case-insensitive <ul style="list-style-type: none"> HTTP FTP SMTP POP3 IMAP 	N/A
Direction	Direction of protocol traffic	N/A	Enumeration: <ul style="list-style-type: none"> 0—Upload 1—Download 2—Both 	N/A
Action	Actions for the	N/A	Enumeration:	N/A

	specified protocol's traffic		<ul style="list-style-type: none"> 1—Alert 2—Block 3—Redirect 	
Application	Application configuration	Data Structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true 	Default is false

			<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 0—Week • 1—Periodic 	Default is 1
Day	Days	N/A	Unsigned integer. Value range: 0 to 15.	When Type is 0, the value range is 0 to 6. Otherwise, the value range is 1 to 15. The 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: <ul style="list-style-type: none"> • 1—Block • 2—Capture 	N/A

			<ul style="list-style-type: none"> • 3—Logging • 4—Redirect • 5—Mail 	
ParameterName	Parameter-Name	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is from DIM table. E.g. If Action is block, the ParameterName's value is from 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 to 536870910.	N/A

AntiVirus/CloudQueryConfig

This table contains cloud query configuration.

XML structure

```
<AntiVirus>
  <CloudQueryConfig>
    <HostName></HostName>
    <CacheSize></CacheSize>
    <CacheTime></CacheTime>
  </CloudQueryConfig>
</AntiVirus>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostName	Name of the host	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
CacheSize	Size of the cache	N/A	Unsigned integer. Value range: 100000 to 200000.	N/A
CacheTime	Lifetime of the cached entries	N/A	Unsigned integer. Value range: 10 to 720.	N/A

AntiVirus/RuleInPolicyMd5

This table contains the MD5 exception information of an AntiVirus policy.

XML structure

```
<AntiVirus>
  <RuleInPolicyMd5>
```



```

<Policy>
  <PolicyName></PolicyName>
  <ExceptionMd5></ExceptionMd5>
</Policy>
</RuleInPolicyMd5>
</AntiVirus>

```

Table description

Item	Description
Feature name	AntiVirus
Table name	RuleInPolicyMd5
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
ExceptionMd5	Value of the MD5	Index	String: case-insensitive. Length: 32 characters.	N/A

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XML structure	4
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Columns	4
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Columns	7
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XML structure	8
Table description	8
Columns	8
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XML structure	9
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XML structure	9
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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
AntiVirus/RuleInPolicyMd5	12
XML structure	12
Table description	12
Columns	13

AntiVirus

AntiVirus/Policies

This table contains AntiVirus policy.

XML structure

```
<AntiVirus>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <Description></Description>
      <CloudQuery></CloudQuery>
    </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
CloudQuery	Enabling status of cloud querying	N/A	Enumeration: <ul style="list-style-type: none">1—Enabled.2—Disabled.	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>

```

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	DataStructure	Members include: <ul style="list-style-type: none"> ProtocolName Direction Action 	N/A
ProtocolName	Protocol name	N/A	String: case-insensitive. <ul style="list-style-type: none"> HTTP FTP SMTP POP3 IMAP 	N/A
Direction	Direction of protocol traffic	N/A	Enumeration: <ul style="list-style-type: none"> 0—Upload 1—Download 2—Both 	N/A
Action	Actions for the specified protocol's traffic	N/A	Enumeration: <ul style="list-style-type: none"> 1—Alert 2—Block 3—Redirect 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Application	Application configuration	Data Structure	Members include: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 1—Alert • 2—Block • 3—Permit 	N/A

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 to 536870910.	From signature file.

Column name	Column description	Column type	Data type and restrictions	Remarks
Severity	Severity of the virus	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Current 2—Latest 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 3—Factory 	
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	Percentage of update	N/A	Unsigned integer. Value range: 0 to 100.	When the value range is 0 to 100, it means in upgrading, Otherwise, it 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: <ul style="list-style-type: none">truefalse	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: <ul style="list-style-type: none">0—Week1—Periodic	Default is 1
Day	Days	N/A	Unsigned integer. Value range: 0 to 15.	When Type is 0, the value range is 0 to 6. Otherwise, the value range is 1 to 15. The 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: <ul style="list-style-type: none">1—Block2—Capture3—Logging4—Redirect5—Mail	N/A
ParameterName	Parameter-Name	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is from DIM table. E.g. If Action is block, the ParameterName's value is from 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 to 536870910.	N/A

AntiVirus/FamilyInfos

This table contains information about virus families displayed on paginated lists.

XML structure

```
<AntiVirus>
  <FamilyInfos>
    <FamilyInfo>
      <UserID></UserID>
      <Position></Position>
      <TotalCount></TotalCount>
      <FamilyID></FamilyID>
      <FamilyName></FamilyName>
    </FamilyInfo>
  </FamilyInfos>
</AntiVirus>
```



```

    </FamilyInfos>
</AntiVirus>

```

Table description

Item	Description
Feature name	AntiVirus
Table name	FamilyInfos
Table type	Multi-instance table
Row name	FamilyInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserID	ID of the current virtual user.	Index	Unsigned integer.	The value is used to identify each query results in back end, and send to fore-end to get other paginated results when query results is more than one page.
Position	Position of the family on the entire virus families list.	Index	Unsigned integer.	N/Az
TotalCount	Total number of virus families.	N/A	Unsigned integer.	If the query function is used, the total number of virus families in the query results is displayed.
FamilyID	ID of the family.	Index	Unsigned integer. Value range: 1 to 536870910.	The value is obtained from the anti-virus signature file.
FamilyName	Name of the family.	N/A	String: case-insensitive. Length: 1 to 63 characters.	The value is obtained from the anti-virus signature file.

AntiVirus/CloudQueryConfig

This table contains cloud query configure information.

XML structure

```

<AntiVirus>
  <CloudQueryConfig>

```



```

    <HostName></HostName>
    <CacheSize></CacheSize>
    <CacheTime></CacheTime>
  </CloudQueryConfig>
</AntiVirus>

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostName	Name of the host	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
CacheSize	Size of the cache	N/A	Unsigned integer. Value range: 100000 to 200000.	N/A
CacheTime	Lifetime of the cached entries	N/A	Unsigned integer. Value range: 10 to 720.	N/A

AntiVirus/CloudQueryState

This table contains cloud query status information.

XML structure

```

<AntiVirus>
  <CloudQueryState>
    <HostName></HostName>
    <HostState></HostState>
    <HostStateErrCode></HostStateErrCode>
  </CloudQueryState>
</AntiVirus>

```


Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostName	Name of the host	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
HostState	Status of the host	N/A	Enumeration: <ul style="list-style-type: none">0—Available1—Unavailable	N/A
HostStateErrCode	Error code of cloud query	N/A	Unsigned integer. Value range: 0 to 3.	N/A

AntiVirus/RuleInPolicyMd5

This table contains the MD5 exception information of an AntiVirus policy.

XML structure

```
<AntiVirus>
  <RuleInPolicyMd5>
    <Policy>
      <PolicyName></PolicyName>
      <ExceptionMd5></ExceptionMd5>
    </Policy>
  </RuleInPolicyMd5>
</AntiVirus>
```

Table description

Item	Description
Feature name	AntiVirus
Table name	RuleInPolicyMd5
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
ExceptionMd5	Value of the MD5	Index	String: case-insensitive. Length: 32 characters.	N/A

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XML structure	2
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XML structure	3
Table description	3
Columns	4
AP/RegroupAPByMac	4
XML structure	4
Table description	4
Columns	4
AP/RegroupAPBySerialID	5
XML structure	5
Table description	5
Columns	5
AP/RegroupAPByGroup	5
XML structure	5
Table description	6
Columns	6
AP/AuthenticateAP	6
XML structure	6
Table description	7
Columns	7
AP/AuthenticateAllAP	7
XML structure	7
Table description	7
Columns	8
AP/ImportAuthenticateFile	8
XML structure	8
Table description	8
Columns	8
AP/ProvisionAP	8
XML structure	9
Table description	9
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: <ul style="list-style-type: none"> 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
OldGroupName	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.
NewGroupName	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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 1—Provision.• 2—Reset provisioning.	N/A

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AP

AP/GlobalCfg

This table contains the informations of global.

XML structure

```
<AP>
  <GlobalCfg>
    <AutoAp></AutoAp>
    <AutoPersistent></AutoPersistent>
    <RegionCode></RegionCode>
    <RegionLock></RegionLock>
    <Preempt></Preempt>

    <FirmwareUpgrade></FirmwareUpgrade>

    <TunnelEncryption></TunnelEncryption>
    <Gps></Gps>
    <LocalAC></LocalAC>
    <CentralACIPv4></CentralACIPv4>
    <CentralACIPv6></CentralACIPv6>
    <ControlAddress></ControlAddress>
    <ControlAddressIPv4></ControlAddressIPv4>
    <ControlAddressIPv6></ControlAddressIPv6>
  </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Support. false—Not support. Default value is false.	N/A
Preempt	Whether the AP in this group will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: <ul style="list-style-type: none"> true: Switch false: Not switch Default value is false.	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable false—Disable Default value is disable.	N/A
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable false—Disable 	N/A
Gps	Whether to open the Gps report switch.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable false—Disable 	Only for FatAP Type
LocalAC	Whether to enable Local ac.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable false—Disable 	Only for Local-ac Type
CentralACIPv4	The IPv4 Central AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Only for Local-ac Type
CentralACIPv6	The IPv6 Central AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Only for Local-ac Type
ControlAddress	CAPWAP control address configuration	N/A	Boolean: <ul style="list-style-type: none"> true—Enable false—Disable 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ControlAddressIPv4	Specify an AC IPv4 address for AC rediscovery	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ControlAddressIPv6	Specify an AC IPv4 address for AC rediscovery	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

AP/ManualAP

This table contains manual AP information.

XML structure

```

<AP>
  <ManualAP>
    <AP>
      <Name></Name>
      <Model></Model>
      <CfgSerialID></CfgSerialID>
      <CfgMacAddress></CfgMacAddress>
      <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>
      <ControlAddress></ControlAddress>
      <ControlAddressIPv4></ControlAddressIPv4>
      <ControlAddressIPv6></ControlAddressIPv6>
      <ProvisionAutoUpgrade></ProvisionAutoUpgrade>
      <ProvisionAutoRecover></ProvisionAutoRecover>
    </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.
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.
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true: Switch false: Not switch 	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. Unit: 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	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: 0 to 240. 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: <ul style="list-style-type: none"> true—Enable false—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: <ul style="list-style-type: none"> true—Enable false—Disable 	N/A
ControlAddress	CAPWAP control address configuration.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
ControlAddressIPv4	Specify an AC IPv4 address for AC rediscovery.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ControlAddressIPv6	Specify an AC IPv4	N/A	Hexadecimal string,	Example: 1:1::1:1.

	address for AC rediscovery.		colon-separated.	
ProvisionAutoUpgrade	Whether to enable provision auto-upgrade.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
ProvisionAutoRecover	Whether to enable provision auto-recover.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—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>
      <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

Item	Description
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—20M 2—40M 3—80M 4—160M 5—80M + 80M 17—5M 18—10M 	N/A
Status	Radio status	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable 1—Enable 2—Inherit 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateMulticast	Multicast rate.	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> • 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 <p>If this column is not configured, the multicast rate will be calculated automatically.</p>	The value can have multi-selections. List of enumeration, separated by comma Example: 1, 2.
RateMandatory	Mandatory rate.	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Disable 1—Enable 2—Inherit 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ChannelAutoLock	Lock the channel	N/A	Boolean: <ul style="list-style-type: none"> • 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 tim.	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. And the value must be an even number. 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.	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.
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.
IPv4Addresses	Specify an IP address that the AP uses to establish a CAPWAP tunnel.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
IPv6Addresses	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: <ul style="list-style-type: none"> 1—md5 2—peap-gtc 3—peap-mschapv2 4—tls-gtc 5—tls-mschapv2 	N/A
Dot1xSupplEnable	Enable the 802.1X supplicant feature.	N/A	Boolean: <ul style="list-style-type: none"> 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/PrvsOfManualAPACIPv4

This table contains provision information of manual AP of IPv4 address.

XML structure

```

<AP>
  <PrvsOfManualAPACIPv4>
    <Prvs>
      <ApName></ApName>
      <ACIPv4></ACIPv4>
    </Prvs>
  </PrvsOfManualAPACIPv4>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	PrvsOfManualAPACIPv4
Table type	Multi-instance table
Row name	Prvs
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ACIPv4	Specify an AC by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

AP/PrvsOfManualAPACIPv6

This table contains provision information of manual AP of IPv6 address.

XML structure

```

<AP>
  <PrvsOfManualAPACIPv6>
    <Prvs>
      <ApName></ApName>
      <ACIPv6></ACIPv6>
    </Prvs>
  </PrvsOfManualAPACIPv6>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	PrvsOfManualAPACIPv6
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	ApName	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ACIPv6	Specify an AC by its IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1.1.1.1. This column is available when the SrcAny column is false.

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.
RadioID	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: <ul style="list-style-type: none"> 0—BK. 1—BE. 2—VI. 3—VO 	N/A
Noack	Whether acknowledgement is required.	N/A	Boolean: <ul style="list-style-type: none"> 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/RadioIDB/Aifsn" column.	N/A
CfgEcwmin	Exponent form of CWmin.	N/A	The value range conforms to "AP/RadioIDB/Ecwmin" column.	N/A
CfgEcwmax	Exponent form of CWmax.	N/A	The value range conforms to "AP/RadioIDB/Ecwmax" column.	N/A
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	ApName	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
Status	WMM status of radio.	N/A	Boolean: <ul style="list-style-type: none"> 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>
    </Dot11n>
  </Radio11n>
</AP>

```



```

    <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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Amsdu	A-msdu function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
ShortGI	Short GI function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Stbc	STBC function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Ldpc	LDPC function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Mimo	MIMO.	N/A	Enumeration: <ul style="list-style-type: none"> 1: 1X1 2: 2X2 3: 3X3 4: 4X4 	N/A
Greenap	Green ap function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
SmartAntenna	Smart antenna function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
SmartAntennaPolicy	Smart antenna policy.	N/A	Enumeration: <ul style="list-style-type: none"> 1: Auto 2: High-availability 3: High-throughput 	Effective only when SmartAntenna is enabled.
Protection	802.11n protection function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Client11nOnly	Client dot11n only function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
BandwidthAutoswitch	Bandwidth autoswitch function.	N/A	Boolean: <ul style="list-style-type: none"> 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>
  </Radius11ac>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	Radius11ac
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: <ul style="list-style-type: none"> 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>
    <ProvisionAutoUpgrade></ProvisionAutoUpgrade>
    <ProvisionAutoRecover></ProvisionAutoRecover>
  </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
ApName	Region code of AP group.	N/A	Unsigned short.	Conform to ISO 3166 standart.
RegionLock	Whether the region code of the AP group is locked.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true: Switch false: Not switch Default value is false.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. 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
StatInterval	The interval of AP sending the statistics informations to AC.	N/A	Unsigned short. Value range: 0 to 240. 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: <ul style="list-style-type: none"> true—Enable false—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: <ul style="list-style-type: none"> true—Enable false—Disable 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ProvisionAutoUpgrade	Whether to enable provision auto-upgrade	N/A	Boolean: <ul style="list-style-type: none"> true—Enable false—Disable 	N/A
ProvisionAutoRecover	Whether to enable provision auto-recover	N/A	Boolean: <ul style="list-style-type: none"> true—Enable false—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
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

Item	Description
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

Item	Description
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Support both 5GHz and 2.4GHz 2—Support 5GHz only 3—Support 2.4GHz only 	N/A
Status	Radio status.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable 1—Enable 2—Inherit 	N/A
RateMulticast	Multicast rate.	N/A	Enumeration: <ul style="list-style-type: none"> 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	<p>Enumeration:</p> <ul style="list-style-type: none"> 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 <p>Default value:</p> <p>A. 1, 2Mbps(802.11b).</p> <p>B. 6, 12, 24Mbps(802.11a/802.11an)</p> <p>C. 1, 2, 5.5, 11Mbps(802.11g/802.11gn)</p>	<p>The value can have multi-selections. List of enumeration, separated by comma</p> <p>Example: 1, 2.</p>
RateSupported	Supported rate.	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> 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 <p>Default value:</p> <p>A. 5.5, 11Mbps(802.11b)</p> <p>B. 9, 18, 24, 36, 48, 54Mbps(802.11a/802.11an)</p> <p>C. 6, 9, 12, 18, 24, 36, 54Mbps(802.11g/802.11gn)</p>	<p>The value can have multi-selections, exclude the one which multicast rate uses. List of enumeration, separated by comma</p> <p>Example: 1, 2.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
RateDisabled	Disabled rate.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Disable 1—Enable 2—Inherit 	N/A
ChannelAutoLock	Lock the channel	N/A	Boolean: <ul style="list-style-type: none"> 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. And the value must be an even number. 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: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Amsdu	A-msdu function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
ShortGI	Short GI function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Stbc	STBC function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Ldpc	LDPC function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Mimo	MIMO.	N/A	Enumeration: <ul style="list-style-type: none"> 1: 1X1 2: 2X2 3: 3X3 4: 4X4 	N/A
Greenap	Green ap function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
SmartAntenna	Smart antenna function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
SmartAntennaPolicy	Smart antenna policy.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Client11nOnly	Client dot11n only function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
BandwidthAutoswitch	Bandwidth autoswitch function.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A

AP/APGroupPrvs

This table contains provision information of AP Group.

XML structure

```

<AP>
  <APGroupPrvs>
    <Prvs>
      <GroupName></GroupName>
      <AHostName></AHostName>
    </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	GroupName.	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/APGroupPrvsACIPv4

This table contains provision information of AP Group of IPv4 address.

XML structure

```
<AP>
  <APGroupPrvsACIPv4>
    <Prvs>
      <GroupName></GroupName>
      <ACIPv4></ACIPv4>
    </Prvs>
  </APGroupPrvsACIPv4>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupPrvsACIPv4
Table type	Multi-instance table
Row name	Prvs
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
ACIPv4	Specify an AC by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

AP/APGroupPrvsACIPv6

This table contains provision information of AP group of IPv6 address.

XML structure

```
<AP>
  <APGroupPrvsACIPv6>
    <Prvs>
      <GroupName></GroupName>
```



```

    <ACIPv6></ACIPv6>
  </Prvs>
</APGroupPrvsACIPv6>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APGroupPrvsACIPv6
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	GroupName.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ACIPv6	Specify an AC by its IPv6 address.	N/A	Hexadecimal string,colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false.

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

Item	Description
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>
    <AclNumber></AclNumber>
    <AclName></AclName>
  </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: <ul style="list-style-type: none"> true—Enable. false—Disable. Default value is disable.	N/A
Method	The authentication method.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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".

AP/LocalAC

This table contains local-ac information.

XML structure

```

<AP>
  <LocalAC>
    <AC>
      <Name></Name>
      <Model></Model>
      <CfgSerialID></CfgSerialID>
      <EchoInterval></EchoInterval>
      <RetransInterval></RetransInterval>
      <RetransCount></RetransCount>
      <FirmwareUpgrade></FirmwareUpgrade>
    </AC>
  </LocalAC>
</AP>

```


Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Local-ac name.	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
Model	Local-ac model name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	Characters will be automatically convert case. Refer to AP/ACDB. 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.
CfgSerialID	Configured Local-ac serial ID.	N/A	String, uppercase. Length: 1 to 63 characters.	If this column contains lowercase character, it will be converted to uppercase automatically.
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255 Unit: seconds	N/A
RetransInterval	The interval to retransmit a request message.	N/A	Unsigned short. Value range: 3 to 8 Unit: 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: 2 to 5. Unit: seconds	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A

AP/ContainerTopology

This table contains information about all PoE ports on the container (such as SPM and WT).

XML structure

```

<AP>
  <ContainerTopology>
    <Container>
      <ContainerName></ContainerName>
      <PoePort></PoePort>
      <PoeStatus></PoeStatus>
    </Container>
  </ContainerTopology>
</AP>

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContainerName	Container name.	Index	String, lowercase. Length: 1 to 64 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PoePort	Port on the container	Index	Unsigned short.	See AP/APDB/.
PoeStatus	PoE port status.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable false—Disable 	N/A

AP/Container

This table contains information about containers.

XML structure

```

<AP>
  <Container>
    <AP>
      <Name></Name>
      <Model></Model>
      <CfgMacAddress></CfgMacAddress>
    </AP>
  </Container>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	Container
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.	N/A
Model	AP model name.	N/A	String, case-insensitive. Length: 1 to 63 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.

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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>
    <Is5gRadioNum></Is5gRadioNum>
    <Is2gRadioNum></Is2gRadioNum>
    <AccessModeNum></AccessModeNum>
    <SensorModeNum></SensorModeNum>
    <HybirdModeNum></HybirdModeNum>
    <ChannelBusyLower10PctNum></ChannelBusy10PctNum>
    <ChannelBusy10PctNum></ChannelBusy10PctNum>

```



```

<ChannelBusy20PctNum></ChannelBusy20PctNum>
<ChannelBusy30PctNum></ChannelBusy30PctNum>
<ChannelBusy40PctNum></ChannelBusy40PctNum>
<ChannelBusy50PctNum></ChannelBusy50PctNum>
<ChannelBusy60PctNum></ChannelBusy60PctNum>
<ChannelBusy70PctNum></ChannelBusy70PctNum>
<ChannelBusy80PctNum></ChannelBusy80PctNum>
<ChannelBusy90PctNum></ChannelBusy90PctNum>
<NoiseFloorLower105Num></NoiseFloorLower105Num>
<NoiseFloor100Num></NoiseFloor100Num>
<NoiseFloor95Num></NoiseFloor95Num>
<NoiseFloor90Num></NoiseFloor90Num>
<NoiseFloor85Num></NoiseFloor85Num>
<NoiseFloor80Num></NoiseFloor80Num>
<NoiseFloor75Num></NoiseFloor75Num>
<NoiseFloor70Num></NoiseFloor70Num>
<NoiseFloorUpper70Num></NoiseFloorUpper70Num>
<Dot11InterfLower10PctNum></Dot11InterfLower10PctNum>
<Dot11Interf10PctNum></Dot11Interf10PctNum>
<Dot11Interf20PctNum></Dot11Interf20PctNum>
<Dot11Interf30PctNum></Dot11Interf30PctNum>
<Dot11Interf40PctNum></Dot11Interf40PctNum>
<Dot11Interf50PctNum></Dot11Interf50PctNum>
<Dot11Interf60PctNum></Dot11Interf60PctNum>
<Dot11Interf70PctNum></Dot11Interf70PctNum>
<Dot11Interf80PctNum></Dot11Interf80PctNum>
<Dot11Interf90PctNum></Dot11Interf90PctNum>
<NonDot11InterfLower10PctNum></NoneDot11InterfLower10PctNum>
<NonDot11Interf10PctNum></NonDot11Interf10PctNum>
<NonDot11Interf20PctNum></NonDot11Interf20PctNum>
<NonDot11Interf30PctNum></NonDot11Interf30PctNum>
<NonDot11Interf40PctNum></NonDot11Interf40PctNum>
<NonDot11Interf50PctNum></NonDot11Interf50PctNum>
<NonDot11Interf60PctNum></NonDot11Interf60PctNum>
<NonDot11Interf70PctNum></NonDot11Interf70PctNum>
<NonDot11Interf80PctNum></NonDot11Interf80PctNum>
<NonDot11Interf90PctNum></NonDot11Interf90PctNum>
<RunSPMNum></RunSPMNum>
<OfflineSPMNum></OfflineSPMNum>
<MaxRunApNum></MaxRunApNum>
<MaxPersistentApNum></MaxPersistentApNum> </APSummary>
</AP>

```

Table description

Item	Description
Feature name	AP

Item	Description
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.
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.
Is5gRadioNum	Number of radios which is 5GHz.	N/A	Unsigned integer. Value range: 0 to 4294967295.
Is2.4gRadioNum	Number of radios which is 2.4GHz.	N/A	Unsigned integer. Value range: 0 to 4294967295.
AccessModeNum	Number of radios in access mode.	N/A	Unsigned integer. Value range: 0 to 4294967295.

Column name	Column description	Column type	Data type and restrictions
SensorModeNum	Number of radios in sensor mode.	N/A	Unsigned integer. Value range: 0 to 4294967295.
HybirdModeNum	Number of radios in hybird mode.	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusyLower10PctNum	Number of radios which channel busy is lower than 10%	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusy10PctNum	Number of radios which channel busy is between 10% and 20%	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusy20PctNum	Number of radios which channel busy is between 20% and 30%	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusy30PctNum	Number of radios which channel busy is between 30% and 40%	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusy40PctNum	Number of radios which channel busy is between 40% and 50%	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusy50PctNum	Number of radios which channel busy is between 50% and 60%	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusy60PctNum	Number of radios which channel busy is between 60% and 70%	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusy70PctNum	Number of radios which channel busy is between 70% and 80%	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusy80PctNum	Number of radios which channel busy is between 80% and 90%	N/A	Unsigned integer. Value range: 0 to 4294967295.
ChannelBusy90PctNum	Number of radios which channel busy is upper than 90%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NoiseFloorLower105Num	Number of radios which noise floor is lower than 105dbm	N/A	Unsigned integer. Value range: 0 to 4294967295.
NoiseFloor100Num	Number of radios which noise floor is between 100dbm and	N/A	Unsigned integer. Value range: 0 to 4294967295.

Column name	Column description	Column type	Data type and restrictions
	105dbm		
NoiseFloor95Num	Number of radios which noise floor is between 95dbm and 100dbm	N/A	Unsigned integer. Value range: 0 to 4294967295.
NoiseFloor90Num	Number of radios which noise floor is between 90dbm and 95dbm	N/A	Unsigned integer. Value range: 0 to 4294967295.
NoiseFloor85Num	Number of radios which noise floor is between 85dbm and 90dbm	N/A	Unsigned integer. Value range: 0 to 4294967295.
NoiseFloor80Num	Number of radios which noise floor is between 80dbm and 85dbm	N/A	Unsigned integer. Value range: 0 to 4294967295.
NoiseFloor75Num	Number of radios which noise floor is between 75dbm and 80dbm	N/A	Unsigned integer. Value range: 0 to 4294967295.
NoiseFloor70Num	Number of radios which noise floor is between 70dbm and 75dbm	N/A	Unsigned integer. Value range: 0 to 4294967295.
NoiseFloorUpper70Num	Number of radios which noise floor is upper than 70dbm	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11InterfLower10PctNum	Number of radios which 802.11 interference is lower than 10%	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11Interf10PctNum	Number of radios which 802.11 interference is between 10% and 20%	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11Interf20PctNum	Number of radios which 802.11 interference is between 20% and 30%	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11Interf30PctNum	Number of radios which 802.11 interference is between 30% and 40%	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11Interf40PctNum	Number of radios which 802.11 interference is between 40% and 50%	N/A	Unsigned integer. Value range: 0 to 4294967295.

Column name	Column description	Column type	Data type and restrictions
Dot11Interf50PctNum	Number of radios which 802.11 interference is between 50% and 60%	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11Interf60PctNum	Number of radios which 802.11 interference is between 60% and 70%	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11Interf70PctNum	Number of radios which 802.11 interference is between 70% and 80%	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11Interf80PctNum	Number of radios which 802.11 interference is between 80% and 90%	N/A	Unsigned integer. Value range: 0 to 4294967295.
Dot11Interf90PctNum	Number of radios which 802.11 interference is upper than 90%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11InterfLower10PctNum	Number of radios which non-802.11 interference is lower than 10%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11Interf10PctNum	Number of radios which non-802.11 interference is between 10% and 20%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11Interf20PctNum	Number of radios which non-802.11 interference is between 10% and 20%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11Interf30PctNum	Number of radios which non-802.11 interference is between 20% and 30%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11Interf40PctNum	Number of radios which non-802.11 interference is between 30% and 40%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11Interf50PctNum	Number of radios which non-802.11 interference is between 50% and 60%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11Interf60PctNum	Number of radios	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	which non-802.11 interference is between 60% and 70%		Value range: 0 to 4294967295.
NonDot11Interf70PctNum	Number of radios which non-802.11 interference is between 70% and 80%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11Interf80PctNum	Number of radios which non-802.11 interference is between 80% and 90%	N/A	Unsigned integer. Value range: 0 to 4294967295.
NonDot11Interf90PctNum	Number of radios which non-802.11 interference is upper than 90%	N/A	Unsigned integer. Value range: 0 to 4294967295.
RunSPMNum	Number of running SPMs	N/A	Unsigned integer. Value range: 0 to 65535.
OfflineSPMNum	Number of offline SPMs	N/A	Unsigned integer. Value range: 0 to 65535.
MaxRunApNum	Max number of running Aps	N/A	Unsigned integer. Value range: 0 to 65535.
MaxPersistentApNum	Max number of persistent Aps	N/A	Unsigned integer. Value range: 0 to 65535.

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>
<MainAPName></MainAPName>
<Gps></Gps>
<LocalAC></LocalAC>
<CentralACIPv4></CentralACIPv4>
<CentralACIPv6></CentralACIPv6>
<ContralAddress></ContralAddress>
<ControlAddressIPv4></ControlAddressIPv4>
<ControlAddressIPv6></ControlAddressIPv6>
</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: <ul style="list-style-type: none"> true—Support. false—Not support. Default value is false.	N/A
AutoPersist ent	When an auto AP connects the AC , whether convert the AP to manual AP automatically.	N/A	Boolean: <ul style="list-style-type: none"> 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 standart.
RegionLock	Whether the region code of the AC is locked.	N/A	Boolean: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
Preempt	Whether the AP in this group will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: <ul style="list-style-type: none"> true: Switch false: Not switch 	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. Unit: 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	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
StatInterval	The interval of AP sending the statistics informations to AC.	N/A	Unsigned short. Value range: 0 to 240. Unit: seconds.	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: <ul style="list-style-type: none"> true: Enable false: 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: <ul style="list-style-type: none"> true—Enable false—Disable 	N/A
MainAPName	AP name.	N/A	String, lowercase. Length: 1 to 64 characters.	Only for FatAP Type.
Gps	Gps.	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	Only for FatAP Type

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalAC	Whether to enable Local ac.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	Only for Local-ac Type
CentralACIPv4	The IPv4 Central AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. Only for Local-ac Type
CentralACIPv6	The IPv6 Central AC address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. Only for Local-ac Type
ControlAddress	CAPWAP control address configuration.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
ControlAddressIPv4	Specify an AC IPv4 address for AC rediscovery	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ControlAddressIPv6	Specify an AC IPv4 address for AC rediscovery	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.

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>
<OfflineTime></OfflineTime>
<OfflineMoment></OfflineMoment>
<ControlAddress></ControlAddress>
<ControlAddressIPv4></ControlAddressIPv4>
<ControlAddressIPv6></ControlAddressIPv6>
<ProvisionAutoUpgrade></ProvisionAutoUpgrade>
<ProvisionAutoRecover></ProvisionAutoRecover>
<ModelType></ModelType>
</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
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: <ul style="list-style-type: none"> 1—Online 2—Offline 3—Image downloading 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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 standart.
RegionLock	Whether the region code of the AP is locked.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true: Switch false: Not switch 	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. 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	RetransCount	N/A	Unsigned short. Value range: 0 to 240. 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: <ul style="list-style-type: none"> true—Enable false—Disable 	N/A
BackupACIPv4	The IPv4 backup AC address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> true—Enable false—Disable 	N/A
OfflineTime	The time since the AP online.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: Second	N/A
OfflineMoment	The time of the AP offline in last time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Example: 2014-05-07T09:35:07
ControlAddress	CAPWAP control address configuration	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
ControlAddressIPv4	Specify an AC IPv4 address for AC rediscovery	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
ControlAddressIPv6	Specify an AC IPv4 address for AC rediscovery	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1.
ProvisionAutoUpgrade	Whether to enable provision auto-upgrade.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
ProvisionAutoRecover	Whether to enable provision auto-recover.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable 	N/A
ModelType	Whether to enabel wtu configuration	N/A	Enumeration: <ul style="list-style-type: none"> 1—normal 2—wt 3—wtu 	When the value is 3, some command can not be configured.

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 standard.
RegionLock	Whether the region code of the AP is locked.	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
Priority	AP connection priority.	N/A	Unsigned short. Value range: 0 to 7.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Preempt	Whether the AP will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: <ul style="list-style-type: none"> true: Switch false: Not switch 	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. Unit: 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.	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
StatInterval	The interval of AP sending the statistics informations to AC.	N/A	Unsigned short. Value range: 0 to 240. Unit: seconds.	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable false—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: <ul style="list-style-type: none"> true—Enable false—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>
      <LocalACName><LocalACName>
    </AP>
  </RunAP>
</AP>
```


Table description

Item	Description
Feature name	AP
Table name	RunAP
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
SerialID	AP serial ID.	N/A	String, uppercase. Length: 1 to 127 characters.	N/A
Type	AP type.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
OnlineTime	The time since the AP online.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: Second	N/A
HWVer	The version of AP hardware.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Unknown 2—DHCP 3—Static Configuration 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	N/A	String. Length: 1 to 31 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	last time.			
LastReboot Reason	The cause of the AP rebooting in last time.	N/A	String. Length: 1 to 31 characters.	N/A
TunnelDown Reason	The cause of the tunnel down in last time.	N/A	String. Length: 1 to 31 characters.	N/A
Connection Type	The connection type of tunnel.	N/A	Enumeration: <ul style="list-style-type: none"> 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
Authenticate dFlag	Whether the auto-ap is authenticated.	N/A	Boolean: <ul style="list-style-type: none"> Enable Disable 	When AP type is manual AP, this column is invalid.
LocalACName	Local-ac name.	N/A	String, lowercase. Length: 1 to 64 characters.	N/A

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
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/RadiusOfManualAP

This table contains radio information of manual AP.

XML structure

```
<AP>
  <RadiusOfManualAP>
    <Radio>
      <ApName></ApName>
      <RadioID></RadioID>
      <Mode></Mode>
      <SupportDot11B></SupportDot11B>
      <SupportDot11A></SupportDot11A>
      <SupportDot11G></SupportDot11G>
      <SupportDot11GN></SupportDot11GN>
      <SupportDot11AN></SupportDot11AN>
      <SupportDot11GAC></SupportDot11GAC>
    </Radio>
  </RadiusOfManualAP>
</AP>
```



```

    <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>
    <ProtectionMode></ProtectionMode>
    <ValidChannelNum></ValidChannelNum>
    <ValidChannelList></ValidChannelList>    </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

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Radio mode.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11A	Whether a radio supports 802.11a radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11G	Whether a radio supports 802.11g radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11GN	Whether a radio supports 802.11n(2.4GHz) radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11AN	Whether a radio supports 802.11n(5GHz) radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11GAC	Whether a radio supports 802.11ac(2.4GHz) radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11AC	Whether a radio supports 802.11ac(5GHz) radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
Bandwidth	Radio bandwidth.	N/A	Enumeration: <ul style="list-style-type: none"> 1—20M 2—40M 3—80M 4—160M 5—80M + 80M 17—5M 18—10M 	N/A
Spectrum	Supported radio spectrum.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Support both 5GHz and 2.4GHz 2—Support 5GHz only 3—Support 2.4GHz only 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	Radio status.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable 1—Enable 2—Inherit 	N/A
RateMulticast	Multicast.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Disable 1—Enable 2—Inherit 	N/A
Distance	The distance that Radio can cover.	N/A	Unsigned short. The value range is 1~40. Unit: km(kilometre).	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(millisecond).	N/A
FragmentThreshold	Fragment threshold.	N/A	Unsigned short. The value range is 256~2346.And the value must be an even number. Unit: byte.	N/A
LongRetryThreshold	Long retry threshold.	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A
ProtectionThreshold	ProtectionThreshold.	N/A	Unsigned short. The value range is 0~2346. Unit: byte.	N/A
ShortRetryThreshold	ShortRetryThreshold.	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A
CfgChannel	Configured channel number.	N/A	The value range conforms to "AP/ChannelDB/Supported ChannelList" column. And 15 - auto lock、16-auto unlock.	When the value is 15, 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.
CfgMaxPower	Configured maximum power.	N/A	Unsigned short. Value range: 1 to "AP/PowerDB/ValidMaxPower". Unit: dBm	N/A
ProtectionMode	Protection mode.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Rts/Cts. 2—Cts To Self 	N/A
ValidChannelNum	Number of the valid channels	N/A	Unsigned integer. Value range: 0 to 32.	N/A
ValidChannelList	a list of the valid channels.	N/A	Number string. It is a comma-separated list of valid channels. The string must not end with a comma or hyphen, or include any whitespace	Example: 1,2,3,4,5,6,7,8,9,10,11

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>
      <SupportDot11GAC></SupportDot11GAC>
      <SupportDot11AC></SupportDot11AC>
      <Bandwidth></Bandwidth>
      <Spectrum></Spectrum>
      <Status></Status>
      <RateMulticast></RateMulticast>
      <RateMandatory></RateMandatory>
      <RateSupported></RateSupported>
      <RateDisabled></RateDisabled>
      <Preamble></Preamble>
      <BeaconInterval></BeaconInterval>
      <PowerLock></PowerLock>
      <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11A	Whether a radio supports 802.11a radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11G	Whether a radio supports 802.11g radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11GN	Whether a radio supports 802.11n(2.4GHz) radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11AN	Whether a radio supports 802.11n(5GHz) radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11GAC	Whether a radio supports 802.11ac(2.4GHz) radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11AC	Whether a radio supports 802.11ac(5GHz) radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Bandwidth	Radio bandwidth.	N/A	Enumeration: <ul style="list-style-type: none"> 1—20M 2—40M 3—80M 4—160M 5—80M + 80M 17—5M 18—10M 	N/A
Spectrum	Supported radio spectrum.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Support both 5GHz and 2.4GHz 2—Support 5GHz only 3—Support 2.4GHz only 	N/A
Status	Radio status.	N/A	Enumeration: <ul style="list-style-type: none"> Disable Enable 	N/A
RateMulticast	Multicast rate.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Disable Enable 	N/A
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. And the value must be an even number. Unit: byte.	N/A
LongRetryThreshold	LongRetryThreshold.	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A
ProtectionThreshold	ProtectionThreshold.	N/A	Unsigned short. The value range is 0~2346. Unit: byte.	N/A
ShortRetryThreshold	ShortRetryThreshold.	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A
CfgChannel	Configured channel number.	N/A	The value range conforms to AP/ChannelDB/Supported ChannelList" column. And 15 - auto lock、16-auto unlock.	When the value is 15, 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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.

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: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Amsdu	A-msdu function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
ShortGI	Short GI function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Stbc	STBC function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Ldpc	LDPC function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mimo	Mimo.	N/A	Enumeration: <ul style="list-style-type: none"> 1: 1X1 2: 2X2 3: 3X3 4: 4X4 	N/A
Greenap	Green ap function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
SmartAntenna	Smart antenna function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
SmartAntennaPolicy	Smart antenna policy.	N/A	Enumeration: <ul style="list-style-type: none"> 1: Auto 2: High-availability 3: High-throughput 	Effective only when SmartAntenna is enabled.
Protection	802.11n protection function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Client11nOnly	Client dot11n only function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
BandwidthAutoswitch	Bandwidth autoswitch function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. <p>The column is only for 2.4GHz radio mode, and AP/RadiusOfManualAP/Bandwidth must be 2..</p>	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: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Amsdu	A-msdu function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
ShortGI	Short GI function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Stbc	STBC function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Ldpc	LDPC function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Mimo	MIMO.	N/A	Enumeration: <ul style="list-style-type: none"> 1: 1X1 2: 2X2 3: 3X3 4: 4X4 	N/A
Greenap	Green ap function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SmartAntenna	Smart antenna function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
SmartAntennaPolicy	Smart antenna policy.	N/A	Enumeration: <ul style="list-style-type: none"> 1: Auto 2: High-availability 3: High-throughput 	Effective only when SmartAntenna is enabled.
Protection	802.11n protection function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Client11nOnly	Client dot11n only function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
BandwidthAutoswitch	Bandwidth autoswitch function.	N/A	Boolean: <ul style="list-style-type: none"> 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

Item	Description
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: <ul style="list-style-type: none"> 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>
      <NoiseFloor></NoiseFloor>
      <ChannelBusy></ChannelBusy>
    </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—20M 2—40M 3—80M 4—160M 5—80M + 80M 17—5M 18—10M 	N/A
Status	Radio status.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
NoiseFloor	NoiseFloor.	N/A	String, Length: 1 to 7 characters.	N/A
ChannelBusy	ChannelBusy	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.
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.
IPv4Addresses	Specify an IP address that the AP uses to establish a CAPWAP tunnel.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
IPv6Addresses	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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/PrvsOfManualAPACIPv4

This table contains provision information of manual AP of IPv4 address.

XML structure

```

<AP>
  <PrvsOfManualAPACIPv4>
    <Prvs>
      <ApName></ApName>
      <ACIPv4></ACIPv4>
    </Prvs>
  </PrvsOfManualAPACIPv4>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	PrvsOfManualAPACIPv4
Table type	Multi-instance table
Row name	Prvs
Restrictions	None

Item	Description
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ACIPv4	Specify an AC by its IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

AP/PrvsOfManualAPACIPv6

This table contains provision information of manual AP of IPv6 address.

XML structure

```

<AP>
  <PrvsOfManualAPACIPv6>
    <Prvs>
      <ApName></ApName>
      <ACIPv6></ACIPv6>
    </Prvs>
  </PrvsOfManualAPACIPv6>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	PrvsOfManualAPACIPv6
Table type	Multi-instance table
Row name	Prvs
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ApName	AP name.	Index	String, lowercase. Length: 1 to 31 characters.	N/A
ACIPv6	Specify an AC by its IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false.

AP/APDB

This table contains AP model information.

XML structure

```
<AP>
  <APDB>
    <Model>
      <ModelName></ModelName>
      <RadioNum></RadioNum>
      <DefaultRegionCode></DefaultRegionCode>
      <StartPoePort></StartPoePort>
      <EndPoePort></EndPoePort>
      <ModelType></ModelType>
    </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
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.
StartPoePort	Start PoE port.	N/A	Unsigned char.	N/A
EndPoePort	End PoE port	N/A	Unsigned char.	N/A
ModelType	Whether to enable wt configuration.	N/A	Enumeration: <ul style="list-style-type: none">1—normal2—wt3—wtu	When the value is 3, some command can not be configured.

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: <ul style="list-style-type: none"> 1—Ver.A 2—Ver.B 3—Ver.C 4—Ver.D 5—Ver.E 6—Ver.F 	N/A
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>
      <SupportDot11GAC></SupportDot11GAC>
      <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11G	Whether a radio supports 802.11g radio mode.	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11GN	Whether a radio supports 802.11n(2.4GHz) radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11AN	Whether a radio supports 802.11n(5GHz) radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11GAC	Whether a radio supports 802.11ac(2.4GHz) radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11AC	Whether a radio supports 802.11ac(5GHz) radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
Spectrum	Supported radio spectrum.	N/A	Enumeration: <ul style="list-style-type: none"> 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	ArbitrationInter 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

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportBandwidth	Supported channel bandwidth	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
ShortGI40M	Supported short GI for 40MHz	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
ShortGI80M	Supported short GI for 80MHz	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
ShortGI160M	Supported short GI for 160MHz	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SUBeamformer	Supported SU-Beamformer	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
MUBeamformer	Supported MU-Beamformer	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
Ldpc	Supported ldpc	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
TxStbc	Supported TxStbc	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
RxStbc	Supported RxStbc	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
VHTLdpc	Supported VHT ldpc	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VHTTxStbc	Supported VHT TxStbc	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
VHTRxStbc	Supported VHT RxStbc	N/A	Boolean: <ul style="list-style-type: none"> 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>

```

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.	N/A	Unsigned short.	Conform to ISO 3166 standard.

Column name	Column description	Column type	Data type and restrictions	Remarks
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
Row name	ChannelMap
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RadioMode	Radio mode	Index	Enumeration: <ul style="list-style-type: none">1—802.11b2—802.11a3—802.11g4—802.11n(2.4GHz)5—802.11n(5GHz)6—802.11ac(2.4GHz)7—802.11ac(5GHz)	N/A
Bandwidth	Radio bandwidth	Index	Enumeration: <ul style="list-style-type: none">1—20M2—40M3—80M4—160M5—80M + 80M17—5M	N/A

			<ul style="list-style-type: none"> 18—10M 	
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.
ChannelType	Type of spectrum, bandwidth and channel range.	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> 1—802.11b 2—802.11g 3—802.11n(2.4GHz) in 20M mode 4—802.11n(2.4GHz) in 40M mode 5—802.11gac(2.4GHz) in 20M mode 6—802.11gac(2.4GHz) in 40M mode 7—802.11a(36 to 64) 8—802.11a(100 to 144) 9—802.11a(149 to 165) 10—802.11n(5GHz) (36 to 64) in 20M mode 11—802.11n(5GHz) (100 to 144) in 20M mode 12—802.11n(5GHz) (149 to 165) in 20M mode 13—802.11n(5GHz) (36 to 64) in 40M mode 14—802.11n(5GHz) (100 to 144) in 40M mode 15—802.11n(5GHz) (149 to 165) in 40M mode 16—802.11ac (36 to 64) in 20M mode 17—802. 11ac (100 to 144) in 20M mode 18—802. 11ac (149 to 165) in 20M mode 19—802.11ac (36 to 64) in 40M mode 20—802. 11ac (100 to 144) in 40M mode 21—802. 11ac (149 to 165) in 40M mode 22—802.11ac (36 to 64) in 80M mode 23—802. 11ac (100 to 144) in 80M mode 24—802. 11ac (149 to 	N/A

			165) in 80M mode <ul style="list-style-type: none"> • 25—802.11ac (36 to 64) in 160M mode 	
			<ul style="list-style-type: none"> • 26—802. 11ac (100 to 144) in 160M mode • 27—802. 11ac (149 to 165) in 160M mode • 28—802. 11ac (36 to 64) in 8080M mode • 29—802. 11ac (100 to 144) in 8080M mode • 30—802. 11ac (149 to 165) in 8080M mode 	

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: <ul style="list-style-type: none"> 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
RegionCode	Region code of AP.	Index	Unsigned short.	Refer to AP/RegionDB/RegionCode.
ChannelType	Type of spectrum, bandwidth and channel range.	Index	Enumeration: <ul style="list-style-type: none"> 1—802.11b 2—802.11g 3—802.11n(2.4GHz) in 20M mode 4—802.11n(2.4GHz) in 40M mode 5—802.11gac in 20M mode 6—802.11gac in 40M mode 7—802.11a(36 to 64) 8—802.11a(100 to 144) 9—802.11a(149 to 165) 10—802.11n(5GHz) (36 to 64) in 20M mode 11—802.11n(5GHz) (100 to 144) in 20M mode 12—802.11n(5GHz) (149 to 165) in 20M mode 13—802.11n(5GHz) (36 to 64) in 40M mode 14—802.11n(5GHz) (100 to 144) in 40M 	Refer to AP/ChannelTypeMap/ChannelType.

Column name	Column description	Column type	Data type and restrictions	Remarks
			mode <ul style="list-style-type: none"> 15—802.11n(5GHz) (149 to 165) in 40M mode 16—802.11ac (36 to 64) in 20M mode 17—802. 11ac (100 to 144) in 20M mode 18—802. 11ac (149 to 165) in 20M mode 19—802.11ac (36 to 64) in 40M mode 20—802. 11ac (100 to 144) in 40M mode 21—802. 11ac (149 to 165) in 40M mode 22—802.11ac (36 to 64) in 80M mode 23—802. 11ac (100 to 144) in 80M mode 24—802. 11ac (149 to 165) in 80M mode 25—802.11ac (36 to 64) in 160M mode 26—802. 11ac (100 to 144) in 160M mode 27—802. 11ac (149 to 165) in 160M mode 28—802. 11ac (36 to 64) in 8080M mode 29—802. 11ac (100to 144) in 8080M mode 30—802. 11ac (149 to 165) in 8080M mode 	
PowerIndex	The index value of power table	N/A	Enumeration: <ul style="list-style-type: none"> 1—System script 2—Userscript 	N/A
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: <ul style="list-style-type: none"> 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	<p>Enumeration:</p> <ul style="list-style-type: none"> 1—802.11b 2—802.11g 3—802.11n(2.4GHz) in 20M mode 4—802.11n(2.4GHz) in 40M mode 5—802.11gac in 20M mode 6—802.11gac in 40M mode 7—802.11a(36 to 64) 8—802.11a(100 to 144) 9—802.11a(149 to 165) 10—802.11n(5GHz) (36 to 64) in 20M mode 11—802.11n(5GHz) (100 to 144) in 20M mode 12—802.11n(5GHz) (149 to 165) in 20M mode 13—802.11n(5GHz) (36 to 64) in 40M mode 14—802.11n(5GHz) (100 to 144) in 40M mode 15—802.11n(5GHz) (149 to 165) in 40M mode 16—802.11ac (36 to 64) in 20M mode 17—802. 11ac (100 to 144) in 20M mode 18—802. 11ac (149 to 165) in 20M mode 19—802.11ac (36 to 64) in 40M mode 20—802. 11ac (100 to 144) in 40M mode 21—802. 11ac (149 to 165) in 40M mode 22—802.11ac (36 to 64) in 80M mode 23—802. 11ac (100 to 144) in 80M mode 24—802. 11ac (149 to 165) in 80M mode 25—802.11ac (36 to 64) in 160M mode 	Refer to AP/ChannelTypeMap/ChannelType.

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 26—802. 11ac (100 to 144) in 160M mode 27—802. 11ac (149 to 165) in 160M mode 28—802. 11ac (36 to 64) in 8080M mode 29—802. 11ac (100 to 144) in 8080M mode 30—802. 11ac (149 to 165) in 8080M mode 	
PowerSubIndex	The sub-index value of power table	Index	Unsigned short.	Refer to AP/PowerIndex/PowerSubIndex
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: <ul style="list-style-type: none">• 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	<p>Enumeration:</p> <ul style="list-style-type: none"> 1—802.11b 2—802.11g 3—802.11n(2.4GHz) in 20M mode 4—802.11n(2.4GHz) in 40M mode 5—802.11gac in 20M mode 6—802.11gac in 40M mode 7—802.11a(36 to 64) 8—802.11a(100 to 144) 9—802.11a(149 to 165) 10—802.11n(5GHz) (36 to 64) in 20M mode 11—802.11n(5GHz) (100 to 144) in 20M mode 12—802.11n(5GHz) (149 to 165) in 20M mode 13—802.11n(5GHz) (36 to 64) in 40M mode 14—802.11n(5GHz) (100 to 144) in 40M mode 15—802.11n(5GHz) (149 to 165) in 40M mode 16—802.11ac (36 to 64) in 20M mode 17—802. 11ac (100 to 144) in 20M mode 18—802. 11ac (149 to 165) in 20M mode 19—802.11ac (36 to 64) in 40M mode 20—802. 11ac (100 to 144) in 40M mode 21—802. 11ac (149 to 165) in 40M mode 22—802.11ac (36 to 64) in 80M mode 23—802. 11ac (100 to 144) in 80M mode 24—802. 11ac (149 to 165) in 80M mode 25—802.11ac (36 to 64) in 160M mode 	Refer to AP/ChannelTypeMap/ChannelType.

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 26—802. 11ac (100 to 144) in 160M mode 27—802. 11ac (149 to 165) in 160M mode 28—802. 11ac (36 to 64) in 8080M mode 29—802. 11ac (100 to 144) in 8080M mode 30—802. 11ac (149 to 165) in 8080M mode 	
PowerSubIndex	The sub-index value of power table	Index	Unsigned short.	Refer to AP/PowerIndex/PowerSubIndex
Channel	Legal channel number.	Index	Unsigned short.	Refer to AP/ChannelID/SupportedChannelList.
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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> 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.
RadioID	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: <ul style="list-style-type: none"> 0—BK. 1—BE. 2—VI. 3—VO. 	N/A
Noack	Whether	N/A	Boolean:	

Column name	Column description	Column type	Data type and restrictions	Remarks
	acknowledgement is required.		<ul style="list-style-type: none"> true—Not required. false—Required. 	N/A
CfgAifsn	ArbitrationInter Frame Spacing Number.	N/A	The value range conforms to “AP/RadioIDB/Aifsn” column.	N/A
CfgEcwmin	Exponent form of CWmin.	N/A	The value range conforms to “AP/RadioIDB/Ecwmin” column.	N/A
CfgEcwmax	Exponent form of CWmax.	N/A	The value range conforms to “AP/RadioIDB/Ecwmax” column.	N/A
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
Status	WMM status of radio.	N/A	Boolean: <ul style="list-style-type: none">true—Enable.false—Disable.	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>
      <ProvisionAutoUpgrade></ProvisionAutoUpgrade>
      <ProvisionAutoRecover></ProvisionAutoRecover>
    </Group>
  </APGroup>
</AP>
```


Table description

Item	Description
Feature name	AP
Table name	APGroup
Table type	Multi-instance table
Row name	Group
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
AP group name	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: <ul style="list-style-type: none"> 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 in this group will be forced to switch the backup tunnel to active by priority.	N/A	Boolean: <ul style="list-style-type: none"> true: Switch false: Not switch. 	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. Unit: 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: 0 to 240. Unit: seconds	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable false—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 cahracters	N/A
TunnelEncryption	Whether to enable tunnel encryption.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable false—Disable 	N/A
ProvisionAutoUpgrade	Whether to enable provision auto-upgrade	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
ProvisionAutoRecover	Whether to enable provision auto-recover	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—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

Item	Description
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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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>
  <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11A	Whether a radio supports 802.11a radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11G	Whether a radio supports 802.11g radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11GN	Whether a radio supports 802.11n(2.4GHz) radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11AN	Whether a radio supports 802.11n(5GHz) radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportDot11AC	Whether a radio supports 802.11ac(5GHz) radio mode	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
Bandwidth	Radio bandwidth	N/A	Enumeration: <ul style="list-style-type: none"> 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
Spectrum	Supported radio spectrum	N/A	Enumeration: <ul style="list-style-type: none"> 1—Support both 5GHz and 2.4GHz 2—Support 5GHz only 3—Support 2.4GHz only 	N/A
Status	Radio status	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable 1—Enable 2—Inherit 	N/A
RateMulticast	Multicast rate	N/A	Enumeration: <ul style="list-style-type: none"> 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.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RateMandatory	Mandatory rate	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> 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 <p>Default value:</p> <p>A. 1, 2Mbps(802.11b).</p> <p>B. 6, 12, 24Mbps(802.11a/802.11an)</p> <p>C. 1, 2, 5.5, 11Mbps(802.11g/802.11gn)</p>	The value can have multi-selections.
RateSupported	Supported rate	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> 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 <p>Default value:</p> <p>A. 5.5, 11Mbps(802.11b)</p> <p>B. 9, 18, 24, 36, 48, 54Mbps(802.11a/802.11an)</p> <p>C. 6, 9, 12, 18, 24, 36, 54Mbps(802.11g/802.11gn)</p>	The value can have multi-selections, exclude the one which multicast rate uses.

Column name	Column description	Column type	Data type and restrictions	Remarks
RateDisabled	Disabled rate	N/A	Enumeration: <ul style="list-style-type: none"> 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.
Preamble	Preamble	N/A	Boolean: <ul style="list-style-type: none"> 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	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
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.	N/A
FragmentThreshold	Fragment threshold	N/A	Unsigned short. The value range is 256~2346. And the value must be an even number. 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

Column name	Column description	Column type	Data type and restrictions	Remarks
ShortRetryThreshold	Short retry threshold	N/A	Unsigned short. The value range is 1~15. Unit: null.	N/A
CfgChannel	Configured channel number	N/A	The value range conforms to "AP/ChannelDB/Supported ChannelList" column. And 15 - auto lock、16-auto unlock.	When the value is 15, 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.
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: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Amsdu	A-msdu function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ShortGI	Short GI function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Stbc	STBC function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Ldpc	LDPC function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Mimo	MIMO.	N/A	Enumeration: <ul style="list-style-type: none"> 1: 1X1 2: 2X2 3: 3X3 4: 4X4 	N/A
Greenap	Green ap function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
SmartAntenna	Smart antenna function	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
SmartAntennaPolicy	Smart antenna policy	N/A	Enumeration: <ul style="list-style-type: none"> 1: Auto 2: High-availability 3: High-throughput 	Effective only when SmartAntenna is enabled.
Protection	802.11n protection function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Client11nOnly	Client dot11n only function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
BandwidthAutoswitch	Bandwidth autoswitch function	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. <p>The column is only for 2.4GHz radio mode, and AP/APGroupRadio/Bandwidth must be 2.</p>	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.	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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A

AP/APGroupPrvs

This table contains provision information of AP Group.

XML structure

```

<AP>
  <APGroupPrvs>
    <Prvs>
      <GroupName></GroupName>
      <AHostName></AHostName>
      <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/APGroupPrvsACIPv4

This table contains provision information of AP Group of IPv4 address.

XML structure

```
<AP>
  <APGroupPrvsACIPv4>
    <Prvs>
      <GroupName></GroupName>
      <ACIPv4></ACIPv4>
    </Prvs>
  </APGroupPrvsACIPv4>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	APGroupPrvsACIPv4
Table type	Multi-instance table

Item	Description
Row name	Prvs
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, dotted decimal notation.	Example: 1.1.1.1.
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.

AP/APGroupPrvsACIPv6

This table contains provision information of AP group of IPv6 address.

XML structure

```

<AP>
  <APGroupPrvsACIPv6>
    <Prvs>
      <GroupName></GroupName>
      <ACIPv6></ACIPv6>
    </Prvs>
  </APGroupPrvsACIPv6>
</AP>

```

Table description

Item	Description
Feature name	AP
Table name	APGroupPrvsACIPv6
Table type	Multi-instance table
Row name	Prvs
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
ACIPv6	Specify an AC by its IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false.

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
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>
    <AclNumber></AclNumber>
    <AclName></AclName>
  </APAuthentication>
</AP>
```


</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: <ul style="list-style-type: none">true—Enable.false—Disable.	N/A
Method	The authentication method	N/A	Enumeration: <ul style="list-style-type: none">1—MAC address.2—Serial ID.	N/A
PermitUnauth	Whether the un-authenticated AP is allowed to join the AC.	N/A	Boolean: <ul style="list-style-type: none">true—Allowed.false—Not allowed.	N/A
AuthDomain	The ISP domain of remote AP authentication.	N/A	String, case-insensitive. Length: 1 to 24 characters.	N/A
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	Remarks
Date	The date of the record,	Index	Format: YYYY-MM-DD. Value range: 1970-01-01 to 2100-12-31.	N/A
Time	The time of the record.	Index	Format: hh:mm. Value range: 00:00 to 23:59.	N/A
ManualApNum	Number of manual APs	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Index	Number of running APs	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
OfflineApNum	Number of offline APs	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
UnhealthyApNum	Number of Unhealthy APs	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
ApGroupNum	Number of AP groups	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

LocationNum	Number of locations	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
NorthIfOutPkt	Packets count of northbound interface with outbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
NorthIfOutByte	Throughput statistics of northbound interface with outbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
NorthIfInPkt	Packets count of northbound interface with inbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
NorthIfInByte	Throughput statistics of northbound interface with inbound direction.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

AP/AllAP

This table contains the information of all APs.

XML structure

```

<AP>
  <AllAP>
    <AP>
      <LocationName></LocationName>
      <Name></Name>
      <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: <ul style="list-style-type: none">1—Online2—Offline3—Image downloading	N/A
Type	AP type	N/A	Enumeration: <ul style="list-style-type: none">1—auto2—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

AP/LocalACDB

This table contains local-ac model information.

XML structure

```
<AP>
  <LocalACDB>
    <Model>
      <ModelName></ModelName>
      <HardwareVersion></HardwareVersion>
      <SoftwareVersion></SoftwareVersion>
    </Model>
  </LocalACDB>
</AP>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModelName	Local-ac model name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
HardwareVersion	The version of Hardware.	Index	Enumeration: <ul style="list-style-type: none">• 1—Ver.A• 2—Ver.B• 3—Ver.C• 4—Ver.D• 5—Ver.E• 6—Ver.F	N/A
SoftwareVersion	The version of Software.	N/A	String Length:1 to 31.	N/A

AP/LocalAC

This table contains information of local-ac.

XML structure

```
<AP>
  <LocalAC>
    <AC>
      <Name></Name>
      <Model></Model>
      <CfgSerialID></CfgSerialID>
      <Status></Status>
      <EchoInterval></EchoInterval>
      <RetransInterval></RetransInterval>
      <RetransCount></RetransCount>
      <FirmwareUpgrade></FirmwareUpgrade>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
    </AC>
  </LocalAC>
</AP>
```

Table description

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

Item	Description
Row name	AC
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Local-ac name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
Model	Local-ac model name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
CfgSerialID	Configured Local-ac serial ID	N/A	String, uppercase. Length: 1 to 63 characters.	N/A
Status	Local-ac associated status	N/A	Enumeration: <ul style="list-style-type: none"> 1—Online 2—Offline 3—Image downloading 	N/A
EchoInterval	The transmit interval of tunnel echo messages.	N/A	Unsigned short. Value range: 0, 5 to 255. Unit: seconds	N/A
RetransInterval	The interval to retransmit a request message.	N/A	Unsigned short. Value range: 3 to 8 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: 2 to 5. Unit: seconds	N/A
FirmwareUpgrade	Whether the AC will upgrade AP's firmware automatically if the software is mismatch.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
Ipv4Address	Local AC IPv4 address	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is unavailable when the AC uses an IPv6 address.
Ipv6Address	Local AC IPv6 address	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is unavailable when the AC uses an IPv4 address.

AP/ContainerTopology

This table contains information about all PoE ports on the container and units (such as WAP and WTU) connected to the container (such as SPM and WT).

XML structure

```
<AP>
  <ContainerTopology>
    <Container>
      <ContainerName></ContainerName>
      <PoePort></PoePort>
      <PoeStatus></PoeStatus>
      <UnitName></UnitName>
    </Container>
  </ContainerTopology>
</AP>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContainerName	Container name	Index	String, lowercase. Length: 1 to 64 characters.	N/A
PoePort	Port on the container	Index	Unsigned short.	See AP/APDB/.
PoeStatus	PoE port status	N/A	Boolean: <ul style="list-style-type: none">true—Enablefalse—Disable	N/A
UnitName	Unit name	N/A	String, lowercase. Length: 1 to 64 characters.	N/A

AP/Container

This table contains information about containers.

XML structure

```
<AP>
  <Container>
    <AP>
      <Name></Name>
      <Model></Model>
      <CfgMacAddress></CfgMacAddress>
      <APNum></APNum>
      <Status></Status>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <OnlineTime></OnlineTime>
      <LastDownReason></LastDownReason>
      <LastRebootReason></LastRebootReason>
      <OfflineMoment></OfflineMoment>
    </AP>
  </Container>
</AP>
```

Table description

Item	Description
Feature name	AP
Table name	Container
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
CfgMacAddress	Configured AP MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
APNum	Number of APs connected to the container	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Status	AP association status	N/A	Enumeration: <ul style="list-style-type: none"> 1—Online 2—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.
OnlineTime	Time since the AP came online.	N/A	Unsigned integer. Value range: 0 to 4294967295. Unit: Second	N/A
LastDownReason	Cause of the tunnel down the last time.	N/A	String. Length: 1 to 31 characters.	N/A
LastRebootReason	Cause of the AP rebooting in last time.	N/A	String. Length: 1 to 31 characters.	N/A
OfflineMoment	The time of the AP offline in last time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Example: 2014-05-07T09:35:07

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AppProfile

AppProfile/Profiles

This table contains application profile information.

XML structure

```
<AppProfile>
  <Profiles>
    <Profile>
      <ProfileName></ProfileName>
    </Profile>
  </Profiles>
</AppProfile>
```

Table description

Item	Description
Feature name	AppProfile
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
ProfileName	Name of the application profile	Index	String: case-insensitive. Length: 1 to 100 characters. Only numbers, letters, and underscores (_) are allowed.	N/A

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AppProfile

AppProfile/Profiles

This table contains application profile information.

XML structure

```
<AppProfile>
  <Profiles>
    <Profile>
      <ProfileName></ProfileName>
    </Profile>
  </Profiles>
</AppProfile>
```

Table description

Item	Description
Feature name	AppProfile
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
ProfileName	Name of the application profile	Index	String: case-insensitive. Length: 1 to 100 characters. Only numbers, letters, and underscores (_) are allowed.	N/A

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AppProxy

AppProxy/MoveBeforeRules

This table is used to move a rule to before another rule.

XML structure

```
<AppProxy>
  <MoveBeforeRules>
    <Rule>
      <ID></ID>
      <DestID></DestID>
    </Rule>
  </MoveBeforeRules>
</AppProxy>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	ID of the rule to be moved	N/A	Unsigned integer. Value range: 1 to 65535	N/A
DestID	ID of the reference rule before which the rule is placed	N/A	Unsigned integer. Value range: 1 to 65536	When the value is 65536, the rule is placed after all rules.

AppProxy/ImportCertificates

This table is used to import the certificate for SSL server in SSL decryption.

XML structure

```
<AppProxy>
  <ImportCertificates>
    <ImportCertificate>
      <FileName></FileName>
      <Trust></Trust>
      <Password></Password>
    </ImportCertificate>
  </ImportCertificates>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	ImportCertificates
Table type	Multi-instance table
Row name	ImportCertificate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	File name of the certificate	Index	String, case-insensitive. Length: 1 to 255 characters.	N/A
Trust	Credibility of the certificate	N/A	Enumeration: <ul style="list-style-type: none">• 0—untrust.• 1—trust.• 2—untrust and trust.	N/A
Password	Password of the certificate	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

AppProxy/DeleteCertificates

This table is used to delete the imported certificate.

XML structure

```
<AppProxy>
  <DeleteCertificates>
    <FileName></FileName>
  </DeleteCertificates>
</AppProxy>
```


</AppProxy>

Table description

Item	Description
Feature name	AppProxy
Table name	DeleteCertificates
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	File name of the certificate	Index.	String, case-insensitive. Length: 1 to 255 characters.	N/A

AppProxy/CommitWhiteLists

This table contains information about committing SSL whitelist.

XML structure

```
<AppProxy>
  <CommitWhiteLists>
    <Commit></Commit>
  </CommitWhiteLists>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	CommitWhiteLists
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Commit	Action of committing SSL whitelist	N/A	This column must be empty.	N/A

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AppProxy

AppProxy/PolicyRules

This table contains proxy rule information.

XML structure

```
<AppProxy>
  <PolicyRules>
    <Rule>
      <ID></ID>
      <RuleName></RuleName>
      <Action></Action>
      <Enable></Enable>
    </Rule>
  </PolicyRules>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	PolicyRules
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	Unsigned integer. Value range: 0 to 65536.	When creating a rule, if the ID is set to 0, the device will automatically assign an ID. The value 65536 is reserved for default rule.
RuleName	Rule name	N/A	String, case-insensitive. Length: 1 to 63 characters.	The value cannot be "default". When operating the default rule, this column cannot be specified.
Action	Action for the	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	rule		<ul style="list-style-type: none"> 1—No proxy. 2—SSL decrypt. 3—TCP proxy. 	
Enable	Enabling status of the rule	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disabled. 1—Enabled. 	When operating the default rule, this column cannot be set to 0.

AppProxy/RuleSrcAddrs

This table contains source address object group information for an existing app-proxy policy rule.

XML structure

```

<AppProxy>
  <RuleSrcAddrs>
    <SrcAddr>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcAddr>
  </RuleSrcAddrs>
</AppProxy>

```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleSrcAddrs
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	Unsigned integer. Value range: 1 to 65535	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IsIncrement	Whether to increment the data	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No. 	N/A
NameList	Object group list	Data structure	Members include: <ul style="list-style-type: none"> NameItem 	N/A
NameItem	Name of the source address object group	N/A	String, case-insensitive. Length: 0 to 31 characters.	The value cannot be “any”.

AppProxy/RuleDestAddr

This table contains destination address object group information for an existing app-proxy policy rule.

XML structure

```

<AppProxy>
  <RuleDestAddr>
    <DestAddr>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestAddr>
  </RuleDestAddr>
</AppProxy>

```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleDestAddr
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	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: <ul style="list-style-type: none">• true—Yes.• false—No.	N/A
NameList	Object group list	Data structure	Members include: <ul style="list-style-type: none">• NameItem	N/A
NameItem	Name of the destination address object group	N/A	String, case-insensitive. Length: 0 to 31 characters.	The value cannot be “any”.

AppProxy/RuleSrcSecZones

This table contains source security zone information for an existing app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleSrcSecZones>
    <SrcSecZone>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcSecZone>
  </RuleSrcSecZones>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleSrcSecZones
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	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: <ul style="list-style-type: none">true—Yes.false—No.	N/A
NameList	Zone list	Data structure	Members include: <ul style="list-style-type: none">NameItem	N/A
NameItem	Name of the source security zone	N/A	String, case-insensitive. Length: 0 to 31 characters.	The value cannot be "any".

AppProxy/RuleDestSecZones

This table contains destination security zone information for an existing app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleDestSecZones>
    <DestSecZone>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestSecZone>
  </RuleDestSecZones>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleDestSecZones
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	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: <ul style="list-style-type: none">true—Yes.false—No.	N/A
ZoneList	Zone list	Data structure	Members include: <ul style="list-style-type: none">Nameltem	N/A
Nameltem	Name of the destination security zone	N/A	String, case-insensitive. Length: 0 to 31 characters.	The value cannot be “any”.

AppProxy/RuleUsers

This table contains user information for an existing app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleUsers>
    <User>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <UserList>
        <UserName></UserName>
        <DomainName></DomainName>
      </UserList>
    </User>
  </RuleUsers>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleUsers
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	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: <ul style="list-style-type: none">true—Yes.false—No.	N/A
UserList	User list	Data structure	Members include: <ul style="list-style-type: none">UserNameDomainName	N/A
UserName	Name of the user	N/A	String, case-sensitive. Length: 1 to 55 characters.	The user name cannot be a, al, or all, and it cannot contain any of the following characters: \ / : * ? < > @.
DomainName	Name of the domain	N/A	String, case-sensitive. Length: 0 to 255 characters.	The domain name cannot contain any of the following characters: \ / ? : * ? < > @, and it 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.

AppProxy/RuleUserGrps

This table contains user group information for an existing app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleUserGrps>
    <UserGrp>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <UserGrpList>
        <UserGrpName></UserGrpName>
        <DomainName></DomainName>
      </UserGrpList>
    </UserGrp>
  </RuleUserGrps>
</AppProxy>
```


Table description

Item	Description
Feature name	AppProxy
Table name	RuleUserGrps
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	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: <ul style="list-style-type: none">true—Yes.false—No.	N/A
UserGrpList	User group list	Data structure	Members include: <ul style="list-style-type: none">UserGrpNameDomainName	N/A
UserGrpName	Name of the user group	N/A	String, case-insensitive. Length: 1 to 200 characters.	N/A
DomainName	Name of the domain	N/A	String, case-sensitive. Length: 0 to 255 characters.	The domain name cannot contain any of the following characters: \ / ? : * ? < > @, and it 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.

AppProxy/RuleServGrps

This table contains service object group information for an existing app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleServGrps>
    <ServGrp>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
```



```

        <NameItem></NameItem>
    </NameList>
</ServGrp>
</RuleServGrps>
</AppProxy>

```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleServGrps
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	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No. 	N/A
NameList	Service group list	Data structure	Members include: <ul style="list-style-type: none"> NameItem 	N/A
NameItem	Name of the service object group	N/A	String, case-insensitive. Length: 0 to 31 characters.	The value cannot be "any".

AppProxy/WhiteListHostNames

This table contains information of user-defined host name whitelist.

XML structure

```

<AppProxy>
  <WhiteListHostNames>
    <HostName>
      <Name></Name>
    </HostName>
  </WhiteListHostNames>
</AppProxy>

```


Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Host name	Index	String, case-insensitive. Length: 1 to 63 characters.	The host name may contain space.

AppProxy/WhiteListPredefine

This table contains information of pre-defined host name whitelist.

XML structure

```
<AppProxy>
  <WhiteListPredefine>
    <HostName>
      <Type></Type>
      <Name></Name>
      <Enable></Enable>
    </HostName>
  </WhiteListPredefine>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	WhiteListPredefine
Table type	Multi-instance table
Row name	HostName
Restrictions	None

Item	Description
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Whether the host name belongs to the pre-define chrome-HSTS list	Index	Enumeration: <ul style="list-style-type: none"> 1—Not in chrome-HSTS. 2—in chrome-HSTS. 	N/A
Name	Host name	Index	String, case-insensitive. Length: 1 to 63 characters.	The host name may contain spaces.
Enable	Enabling status of the host name	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A

AppProxy/WhiteListPredefineChromeHsts

This table contains the state information of chrome-HSTS in pre-defined host name whitelist.

XML structure

```
<AppProxy>
  <WhiteListPredefineChromeHsts>
    <Enable></Enable>
  </WhiteListPredefineChromeHsts>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	WhiteListPredefineChromeHsts
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	Enabling status of host names in chrome-HSTS whitelist	N/A	Boolean: <ul style="list-style-type: none">• true—Enabled• false—Disabled	N/A

AppProxy/TrustCertificate

This table contains credibility information of certificates.

XML structure

```
<AppProxy>
  <TrustCertificates>
    <TrustCertificate>
      <FileName></FileName>
      <Trust></Trust>
    </TrustCertificate>
  </TrustCertificates>
</AppProxy>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	File name of the certificate	Index	String, case-insensitive. Length: 1 to 63 characters	N/A
Trust	Credibility type of the certificate	N/A	Enumeration: <ul style="list-style-type: none">• 0—untrust.• 1—trust.• 2—trust&untrust.	N/A

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Table description.....	8
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AppProxy

AppProxy/GetRules

This table contains information about proxy rules.

XML structure

```
<AppProxy>
  <GetRules>
    <Rule>
      <ID></ID>
      <Name></Name>
      <Action></Action>
      <SrcZoneList>
        <SrcZoneItem></SrcZoneItem>
      </SrcZoneList>
      <DestZoneList>
        <DestZoneItem></DestZoneItem>
      </DestZoneList>
      <SrcAddrList>
        <SrcAddrItem></SrcAddrItem>
      </SrcAddrList>
      <DestAddrList>
        <DestAddrItem></DestAddrItem>
      </DestAddrList>
      <ServGrpList>
        <ServGrpItem></ServGrpItem>
      </ServGrpList>
      <UserList>
        <UserItem></UserItem>
        <DomainItem></DomainItem>
      </UserList>
      <UserGrpList>
        <UserGrpItem></UserGrpItem>
        <DomainItem></DomainItem>
      </UserGrpList>
      <Enable></Enable>
      <AllRulesCount></AllRulesCount>
    </Rule>
  </GetRules>
</AppProxy>
```


Table description

Item	Description
Feature name	AppProxy
Table name	GetRules
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	Unsigned integer. Value range: 1 to 65536	The value 65536 is reserved for default rule.
Name	Rule name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Action	Action for the rule	N/A	Enumeration: <ul style="list-style-type: none"> 1—No proxy. 2—SSL decrypt. 3—TCP proxy. 	N/A
SrcZoneList	Source zone list	Data structure	Members include: <ul style="list-style-type: none"> SrcZonItem 	N/A
SrcZonItem	Name of the source security zone	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
DestZoneList	Destination zone list	Data structure	Members include: <ul style="list-style-type: none"> DestZonItem 	N/A
DestZonItem	Name of the destination security zone	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
SrcAddrList	Source address list	Data structure	Members include: <ul style="list-style-type: none"> SrcAddrItem 	N/A
SrcAddrItem	Name of the source address object group	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
DestAddrList	Destination address list	Data structure	Members include: <ul style="list-style-type: none"> DestAddrItem 	N/A
DestAddrItem	Name of the destination address object group	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
ServGrpList	Service group list	Data structure	Members include: <ul style="list-style-type: none"> ServGrpItem 	N/A
ServGrpItem	Name of the	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	service object group		Length: 0 to 31 characters.	
UserList	User list	Data structure	Members include: <ul style="list-style-type: none"> UserItem DomainItem 	N/A
UserItem	Name of the user	N/A	String, case-sensitive. Length: 0 to 55 characters.	The user name cannot be a, al, or all, and it cannot contain any of the following characters: \ / : * ? < > @.
DomainItem	Name of the domain	N/A	String, case-insensitive. Length: 0 to 255 characters.	The domain name cannot contain any of the following characters: \ / ? : * ? < > @, and it 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.
UserGrpList	User group list	Data structure	Members include: <ul style="list-style-type: none"> UserGrpItem DomainItem 	N/A
UserGrpItem	Name of the user group	N/A	String, case-insensitive. Length: 0 to 200 characters.	N/A
DomainItem	Name of the domain	N/A	String, case-insensitive. Length: 0 to 255 characters.	The domain name cannot contain any of the following characters: \ / ? : * ? < > @, and it 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.
Enable	Enabling status of the rule	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disabled. 1—Enabled. 	N/A
AllRulesCount	Total number of rules	N/A	Unsigned integer.	

AppProxy/QueryRules

This table contains information about proxy rules.

XML structure

```
<AppProxy>
  <QueryRules>
    <Rule>
      <ID></ID>
```



```

<Name></Name>
<Action></Action>
<SrcZoneList>
  <SrcZoneItem></SrcZoneItem>
</SrcZoneList>
<DestZoneList>
  <DestZoneItem></DestZoneItem>
</DestZoneList>
<SrcAddrList>
  <SrcAddrItem></SrcAddrItem>
</SrcAddrList>
<DestAddrList>
  <DestAddrItem></DestAddrItem>
</DestAddrList>
<ServGrpList>
  <ServGrpItem></ServGrpItem>
</ServGrpList>
<UserList>
  <UserItem></UserItem>
  <DomainItem></DomainItem>
</UserList>
<UserGrpList>
  <UserGrpItem></UserGrpItem>
  <DomainItem></DomainItem>
</UserGrpList>
<Enable></Enable>
<AllRulesCount></AllRulesCount>
</Rule>
</QueryRules>
</AppProxy>

```

Table description

Item	Description
Feature name	AppProxy
Table name	QueryRules
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	Unsigned integer.	The value 65536 is reserved for the default

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 65536	rule.
Name	Rule name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Action	Action for the rule	N/A	Enumeration: <ul style="list-style-type: none"> 1—No proxy. 2—SSL decrypt. 3—TCP proxy. 	N/A
SrcZoneList	Source zone list	Data structure	Members include: <ul style="list-style-type: none"> SrcZoneItem 	N/A
SrcZoneItem	Name of the source security zone	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
DestZoneList	Destination zone list	Data structure	Members include: <ul style="list-style-type: none"> DestZoneItem 	N/A
DestZoneItem	Name of the destination security zone	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
SrcAddrList	Source address list	Data structure	Members include: <ul style="list-style-type: none"> SrcAddrItem 	N/A
SrcAddrItem	Name of the source address object group	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
DestAddrList	Destination address list	Data structure	Members include: <ul style="list-style-type: none"> DestAddrItem 	N/A
DestAddrItem	Name of the destination address object group	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
ServGrpList	Service group list	Data structure	Members include: <ul style="list-style-type: none"> ServGrpItem 	N/A
ServGrpItem	Name of the service object group	N/A	String, case-insensitive. Length: 0 to 31 characters.	N/A
UserList	User list	Data structure	Members include: <ul style="list-style-type: none"> UserItem DomainItem 	N/A
UserItem	Name of the user	N/A	String, case-sensitive. Length: 0 to 55 characters.	The user name cannot be a, al, or all, and it cannot contain any of the following characters: \ / : * ? < > @.
DomainItem	Name of the domain	N/A	String, case-insensitive. Length: 0 to 255 characters.	The domain name cannot contain any of the following characters: \ / : * ? < > @, and it cannot be d, de, def, defa, defau, default, default, i, if, if-, if-u, if-un,

Column name	Column description	Column type	Data type and restrictions	Remarks
				if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.
UserGrpList	User group list	Data structure	Members include: <ul style="list-style-type: none"> UserGrpItem DomainItem 	N/A
UserGrpItem	Name of the user group	N/A	String, case-insensitive. Length: 0 to 200 characters.	N/A
DomainItem	Name of the domain	N/A	String, case-insensitive. Length: 0 to 255 characters.	The domain name cannot contain any of the following characters: \ / ? : * ? < > @, and it cannot be d, de, def, defa, defau, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.
Enable	Enabling status of the rule	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disabled. 1—Enabled. 	N/A
AllRulesCount	Total number of rules	N/A	Unsigned integer.	

AppProxy/RuleSrcAddrs

This table contains source address object group information for an app-proxy policy rule.

XML structure

```

<AppProxy>
  <RuleSrcAddrs>
    <SrcAddr>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcAddr>
  </RuleSrcAddrs>
</AppProxy>

```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleSrcAddrs

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No. 	This value is always false.
NameList	Object group list	Data structure	Members include: <ul style="list-style-type: none"> NameItem 	N/A
NameItem	Name of the source address object group	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value cannot be "any".

AppProxy/RuleDestAddrs

This table contains destination address object group information for an app-proxy policy rule.

XML structure

```

<AppProxy>
  <RuleDestAddrs>
    <DestAddr>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestAddr>
  </RuleDestAddrs>
</AppProxy>

```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleDestAddrs
Table type	Multi-instance table

Item	Description
Row name	DestAddr
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No. 	This value is always false.
NameList	Object group list	Data structure	Members include: <ul style="list-style-type: none"> NamelItem 	N/A
NamelItem	Name of the destination address object group	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value cannot be "any".

AppProxy/RuleSrcSecZones

This table contains source security zone information for an app-proxy policy rule.

XML structure

```

<AppProxy>
  <RuleSrcSecZones>
    <SrcSecZone>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </SrcSecZone>
  </RuleSrcSecZones>
</AppProxy>

```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleSrcSecZones
Table type	Multi-instance table

Item	Description
Row name	SrcSecZone
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No. 	This value is always false.
NameList	Zone list	Data structure	Members include: <ul style="list-style-type: none"> NameItem 	N/A
NameItem	Name of the source security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value cannot be "any".

AppProxy/RuleDestSecZones

This table contains destination security zone information for an app-proxy policy rule.

XML structure

```

<AppProxy>
  <RuleDestSecZones>
    <DestSecZone>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
      </NameList>
    </DestSecZone>
  </RuleDestSecZones>
</AppProxy>

```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleDestSecZones
Table type	Multi-instance table
Row name	DestSecZones

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No. 	This value is always false.
NameList	Zone list	Data structure	Members include: <ul style="list-style-type: none"> Nameltem 	N/A
Nameltem	Name of the destination security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value cannot be "any".

AppProxy/RuleUsers

This table contains user information for an app-proxy policy rule.

XML structure

```

<AppProxy>
  <RuleUsers>
    <User>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <UserList>
        <UserName></UserName>
        <DomainName></DomainName>
      </UserList>
    </User>
  </RuleUsers>
</AppProxy>

```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleUsers
Table type	Multi-instance table
Row name	User

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No. 	This value is always false.
UserList	User list	Data structure	Members include: <ul style="list-style-type: none"> UserName DomainName 	N/A
UserName	Name of the user	N/A	String, case-sensitive. Length: 1 to 55 characters.	The user name cannot be a, al, or all, and it cannot contain any of the following characters: \ / : * ? < > @.
DomainName	Name of the domain	N/A	String, case-sensitive. Length: 0 to 255 characters.	The domain name cannot contain any of the following characters: \ / ? : * ? < > @, and it cannot be d, de, def, defa, defau, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.

AppProxy/RuleUserGrps

This table contains user group information for an app-proxy policy rule.

XML structure

```

<AppProxy>
  <RuleUserGrps>
    <UserGrp>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <UserGrpList>
        <UserGrpName></UserGrpName>
        <DomainName></DomainName>
      </UserGrpList>
    </UserGrp>
  </RuleUserGrps>
</AppProxy>

```


Table description

Item	Description
Feature name	AppProxy
Table name	RuleUserGrps
Table type	Multi-instance table
Row name	UserGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: <ul style="list-style-type: none">true—Yes.false—No.	This value is always false.
UserGrpList	UserGrp list	Data structure	Members include: <ul style="list-style-type: none">UserGrpNameDomainName	N/A
UserGrpName	Name of the user group	N/A	String, case-insensitive. Length: 1 to 200 characters.	N/A
DomainName	Name of the domain	N/A	String, case-sensitive. Length: 0 to 255 characters.	The domain name cannot contain any of the following characters: \ / ? : * ? < > @, and it cannot be d, de, def, defa, defau, default, i, if, if-, if-u, if-un, if-unk, if-unkn, if-unkno, if-unknow, or if-unknown.

AppProxy/RuleServGrps

This table contains service object group information for an app-proxy policy rule.

XML structure

```
<AppProxy>
  <RuleServGrps>
    <ServGrp>
      <ID></ID>
      <IsIncrement></IsIncrement>
      <NameList>
        <NameItem></NameItem>
```



```

    </NameList>
  </ServGrp>
</RuleServGrps>
</AppProxy>

```

Table description

Item	Description
Feature name	AppProxy
Table name	RuleServGrps
Table type	Multi-instance table
Row name	ServGrp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535	N/A
IsIncrement	Whether to increment the data	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No. 	This value is always false.
NameList	Service group list	Data structure	Members include: <ul style="list-style-type: none"> NameItem 	N/A
NameItem	Name of the service object group	N/A	String, case-insensitive. Length: 1 to 31 characters.	The value cannot be "any".

AppProxy/WhiteListHostNames

This table contains information of user-defined host name whitelist.

XML structure

```

<AppProxy>
  <WhiteListHostNames>
    <HostName>
      <Name></Name>
      <RowCount></RowCount>
    </HostName>
  </WhiteListHostNames>
</AppProxy>

```


Table description

Item	Description
Feature name	AppProxy
Table name	WhiteListHostNames
Table type	Multi-instance table
Row name	HostName
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Host name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
RowCount	Number of host name items	N/A	Unsigned integer.	N/A

AppProxy/WhiteListPredefine

This table contains information of pre-defined host name whitelist.

XML structure

```
<AppProxy>
  <WhiteListPredefine>
    <HostName>
      <Type></Type>
      <Name></Name>
      <Enable></Enable>
      <RowCount></RowCount>
    </HostName>
  </WhiteListPredefine>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	WhiteListPredefine
Table type	Multi-instance table
Row name	HostName

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Whether the host name belongs to the pre-define chrome-HSTS list	Index	Enumeration: <ul style="list-style-type: none"> 1—Not in chrome-HSTS. 2—In chrome-HSTS. 	N/A
Name	Host name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Enable	Enabling status of the host name	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disabled. 1—Enabled. 	N/A
RowCount	Number of the host name items	N/A	Unsigned integer.	N/A

AppProxy/WhiteListPredefineChromeHsts

This table contains the state information of chrome-HSTS in pre-defined host name whitelist.

XML structure

```
<AppProxy>
  <WhiteListPredefineChromeHsts>
    <Enable></Enable>
  </WhiteListPredefineChromeHsts>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	WhiteListPredefineChromeHsts
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of host names in chrome-HSTS whitelist	N/A	Boolean: <ul style="list-style-type: none">true—Enabledfalse—Disabled	N/A

AppProxy/TrustCertificate

This table contains credibility information of certificates.

XML structure

```
<AppProxy>
  <TrustCertificates>
    <TrustCertificate>
      <FileName></FileName>
      <Trust></Trust>
    </TrustCertificate>
  </TrustCertificates>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	TrustCertificates
Table type	Multi-instance table
Row name	TrustCertificate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	File name of certificate	Index	String, case-insensitive. Length: 1 to 63 characters	N/A
Trust	Credibility type of the certificate	N/A	Enumeration: <ul style="list-style-type: none">0—untrust.1—trust.2—untrust&trust.	N/A

AppProxy/Certificates

This table contains certificates information.

XML structure

```
<AppProxy>
  <Certificates>
    <Certificate>
      <Name></Name>
      <Trust></Trust>
      <Issuer></Issuer>
      <Subject></Subject>
      <StartDate></StartDate>
      <EndDate></EndDate>
      <Version></Version>
      <Serialnumber></Serialnumber>
      <Extend></Extend>
    </Certificate>
  </Certificates>
</AppProxy>
```

Table description

Item	Description
Feature name	AppProxy
Table name	Certificates
Table type	Multi-instance table
Row name	Certificate
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	File name of CA certificate.	Index	String, case-insensitive. Length: 1 to 255 characters.	N/A
Trust	Credibility type of the certificate.	N/A	Enumeration: <ul style="list-style-type: none">0—untrust.1—trust.2—untrust&trust.	N/A
Issuer	Publisher of the certificate	N/A	String	N/A
Subject	Holder of the certificate	N/A	String	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StartDate	The effective date of certificate	N/A	String	N/A
EndDate	Expiration date of the certificate	N/A	String	N/A
Version	Version of the certificate	N/A	Unsigned integer	N/A
Serialnumber	Serial number of the certificate	N/A	String	N/A
Extend	Extended information of the certificate	N/A	String	N/A

AppProxy/Specifications

This table contains specification information.

XML structure

```

<Specifications>
  <RuleSrcAddrLimit></RuleSrcAddrLimit>
  <RuleDestAddrLimit></RuleDestAddrLimit>
  <RuleServGrpsLimit></RuleServGrpLimit>
  <RuleSrcSecZonesLimit></RuleSrcSecZonesLimit>
  <RuleDestSecZonesLimit></RuleDestSecZonesLimit>
  <RuleUsersLimit></RuleUsersLimit>
  <RuleUserGrpsLimit></RuleUserGrpsLimit>
</Specifications>

```

Table description

Item	Description
Feature name	AppProxy
Table name	Specifications
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleSrcAddrLimit	Number limit of source address	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	object groups in a rule			
RuleDestAddr Limit	Number limit of destination address object groups in a rule	N/A	Unsigned integer.	N/A
RuleServGrps Limit	Number limit of service object groups in a rule	N/A	Unsigned integer.	N/A
RuleSrcSecZonesLimit	Number limit of source security zones in a rule	N/A	Unsigned integer.	N/A
RuleDestSecZonesLimit	Number limit of destination security zones in a rule	N/A	Unsigned integer.	N/A
RuleUsersLimit	Number limit of users in a rule	N/A	Unsigned integer.	N/A
RuleUserGrps Limit	Number limit of user groups in a rule	N/A	Unsigned integer.	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.	<p>If the destination port of a packet matches a general port mapping, APR recognizes the packet as the specified application protocol's packet.</p> <p>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.</p>
L4ProtocolID	Transport layer protocol ID	Index	<p>Enumeration:</p> <ul style="list-style-type: none"> • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite. 	<p>This index can be null.</p> <p>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.</p> <p>A mapping with the transport layer protocol specified has a higher priority than one without it.</p>
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	<p>Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other".</p> <p>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.</p> <p>This column is affirmatively chosen item.</p>
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.	<p>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.</p> <p>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.</p>
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: <ul style="list-style-type: none"> • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite. 	<p>This index can be null.</p> <p>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.</p> <p>A mapping with the transport layer protocol specified has a higher priority than one without it.</p>
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.	<p>Example: 1.1.1.1.</p> <p>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.</p> <p>No overlapping of IP addresses is tolerable for the host-port mappings configured with the same application protocol, port number, and transport layer protocol.</p>
EndIpv4Address	End IPv4 address	Index	String, dotted decimal notation.	<p>Example: 1.1.1.6. This index can be null.</p>
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	<p>Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other".</p> <p>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.</p> <p>This column is affirmatively chosen item.</p>

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.	<p>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.</p> <p>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.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: <ul style="list-style-type: none"> • 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.	<p>Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other".</p> <p>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.</p> <p>This column is affirmatively chosen item.</p>

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

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.	<p>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.</p> <p>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.</p>
L4ProtocolID	Transport layer portocol ID	Index	<p>Enumeration:</p> <ul style="list-style-type: none"> • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite. 	<p>This index can be null.</p> <p>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.</p> <p>A mapping with the transport layer protocol specified has a higher priority than one without it.</p>
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.	<p>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.</p> <p>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.</p>
L4ProtocolID	Transport layer portocol ID	Index	<p>Enumeration:</p> <ul style="list-style-type: none"> 6—TCP. 17—UDP. 33—DCCP. 132—SCTP. 136—UDP-Lite. 	<p>This index can be null.</p> <p>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.</p> <p>A mapping with the transport layer protocol specified has a higher priority than one without it.</p>

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.	<p>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.</p> <p>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.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
L4ProtocolID	Transport layer protocol ID specified to the application layer protocol	Index	Enumeration: <ul style="list-style-type: none"> • 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.	<p>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.</p> <p>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.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
L4ProtocolID	Transport layer protocol ID specified to the application layer protocol	Index	Enumeration: <ul style="list-style-type: none"> • 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/Applications

This table contains informations about pre-defined and user-defined applications.

XML structure

```
<APR>
  <Applications>
```



```

<Application>
  <Type></Type>
  <AppName></AppName>
  <SecRisk></SecRisk>
</Application>
</Applications>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	Applications
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
Type	Type of the application layer protocol	Index	Enumeration: <ul style="list-style-type: none"> 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.
SecRisk	Application layer protocol security risk	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A

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.	<p>Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other".</p> <p>The application layer protocol name must be standard and can be identified by the equipment.</p> <p>A maximum of 65535 user-defined application protocols can be added to an application group.</p> <p>If you add a nonexistent application protocol to the application group, the system first creates the protocol before adding it to the application group.</p> <p>Whether the device can recognize the packets of this protocol depends on your configuration.</p>

APR/ AppGroupMembersIncGrp

This table contains the application groups included in an application group.

XML structure

```

<APR>
  <AppGroupMembersIncGrp>
    <GroupMember>
      <GroupName></GroupName>
      <IncGrpName></IncGrpName>
    </GroupMember>
  </AppGroupMembersIncGrp>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	AppGroupMembersIncGrp
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	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.
IncGrpName	Application group 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 (_). Names, such as "invalid" or "other" are not allowed. You can create up to 65536 application groups on the device.

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
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	<ul style="list-style-type: none"> Enumeration: 0—Inbound. 1—Outbound. 	N/A
EnableStatistic	Whether enable statistic for the interface	N/A	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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.	<p>If the destination port of a packet matches a general port mapping, APR recognizes the packet as the specified application protocol's packet.</p> <p>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.</p>
L4ProtocolID	Transport layer protocol ID	Index	<p>Enumeration:</p> <ul style="list-style-type: none"> • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite. 	<p>This index can be null.</p> <p>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.</p> <p>A mapping with the transport layer protocol specified has a higher priority than one without it.</p>
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	<p>Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other".</p> <p>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.</p> <p>This column is affirmatively chosen item.</p>

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.	<p>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.</p> <p>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.</p>
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: <ul style="list-style-type: none"> • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite. 	<p>This index can be null.</p> <p>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.</p> <p>A mapping with the transport layer protocol specified has a higher priority than one without it.</p>
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.	<p>Example: 1.1.1.1.</p> <p>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.</p> <p>No overlapping of IP addresses is tolerable for the host-port mappings configured with the same application protocol, port number, and transport layer protocol.</p>
EndIpv4Address	End IPv4 address	Index	String, dotted decimal notation.	<p>Example: 1.1.1.6. This index can be null.</p>
AppName	Application layer protocol name	N/A	String, case-insensitive. Length: 1 to 63 characters.	<p>Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other".</p> <p>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.</p> <p>This column is affirmatively chosen item.</p>

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number	Index	Unsigned integer. Value range: 0 to 65535.	<p>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.</p> <p>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.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
L4ProtocolID	Transport layer portocol ID	Index	Enumeration: <ul style="list-style-type: none"> • 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.	<p>Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other".</p> <p>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.</p> <p>This column is affirmatively chosen item.</p>

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

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.	<p>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.</p> <p>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.</p>
L4ProtocolID	Transport layer portocol ID	Index	<p>Enumeration:</p> <ul style="list-style-type: none"> • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite. 	<p>This index can be null.</p> <p>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.</p> <p>A mapping with the transport layer protocol specified has a higher priority than one without it.</p>
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.
Ipv4Address	IPv4 address	Index	String, dotted decimal notation.	<p>Example: 1.1.1.1.</p> <p>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.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
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>
      <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: <ul style="list-style-type: none"> • 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
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>

```



```

    </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.	<p>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.</p> <p>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.</p>
L4ProtocolID	Transport layer portocol ID specified to the application layer protocol	Index	Enumeration: <ul style="list-style-type: none"> • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite. 	<p>This index can be null.</p> <p>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.</p> <p>A mapping with the transport layer protocol specified has a higher priority than one without it.</p>

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.	<p>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.</p> <p>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.</p>
L4ProtocolID	Transport layer protocol ID specified to the application layer protocol	Index	<p>Enumeration:</p> <ul style="list-style-type: none"> • 6—TCP. • 17—UDP. • 33—DCCP. • 132—SCTP. • 136—UDP-Lite. 	<p>This index can be null.</p> <p>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.</p> <p>A mapping with the transport layer protocol specified has a higher priority than one without it.</p>

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>
      <L5AppID></L5AppID>
      <AppSubCategoryID></AppSubCategoryID>
      <IsTunnel></IsTunnel>
      <IsEncrypted></IsEncrypted>
      <SecRisk></SecRisk>
      <RiskLevel></RiskLevel>
    </Application>
  </Applications>
</APR>

```



```

    </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: <ul style="list-style-type: none"> 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
L5AppID	Application layer 5 protocol ID	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
AppSubCategoryID	Identify a subCategory	N/A	Unsigned integer. Value range: 1 to $2^{32} - 1$.	N/A
IsTunnel	Whether or not the protocol is a tunnel protocol	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO (default). 	N/A
IsEncrypted	Whether or not the protocol is a cryptographic protocol	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO (default). 	N/A
SecRisk	Application layer protocol security risk	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
RiskLevel	Application layer protocol risk level	N/A	Unsigned integer. Value range: 1 to $2^{16} - 1$.	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	<ul style="list-style-type: none">Enumeration:0—pre-defined.1—user-defined.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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.	<p>Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other".</p> <p>The application layer protocol name must be standard and can be identified by the equipment.</p> <p>A maximum of 65535 user-defined application protocols can be added to an application group.</p> <p>If you add a nonexistent application protocol to the application group, the system first creates the protocol before adding it to the application group.</p> <p>Whether the device can recognize the packets of this protocol depends on your configuration.</p>

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

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	<ul style="list-style-type: none"> Enumeration: 0—Inbound. 1—Outbound. 	N/A
EnableStatistic	Whether enable statistic for the interface	N/A	<ul style="list-style-type: none"> 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 by the interface	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
OutBytes	Number of bytes 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
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

APR/AppSubCategorys

This table contains informations about the application categories.

XML structure

```

<APR>
  <AppSubCategorys>
    <AppSubCategoryEntry>
      <ID></ID>
      <Name></Name>
    </AppSubCategoryEntry>
  </AppSubCategorys>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	AppSubCategorys
Table type	Multi-instance table
Row name	AppSubCategoryEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Application category ID	Index	Unsigned integer. Value range: 0 to 232 - 1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Predefined application category name	N/A	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.

APR/SecurityRisks

This table contains informations about the application security risk.

XML structure

```

<APR>
  <SecurityRisks>
    <SecurityRisk>
      <RiskID></RiskID>
      <RiskName></RiskName>
      <RiskValue></RiskValue>
    </SecurityRisk>
  </SecurityRisks>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	SecurityRisks
Table type	Multi-instance table
Row name	SecurityRisk
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RiskID	Application layer protocol security risk ID	Index	Unsigned integer. Value range: 0 to $2^{16} - 1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RiskName	Application layer protocol security risk name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
RiskValue	Risk value	N/A	Unsigned integer. Value range: 0 to $2^{16} - 1$.	N/A

APR/RiskLevels

This table contains informations about the application risk level.

XML structure

```

<APR>
  <RiskLevels>
    <RiskLevel>
      <Level></Level>
      <Boundary></Boundary>
    </RiskLevel>
  </RiskLevels>
</APR>

```

Table description

Item	Description
Feature name	APR
Table name	RiskLevels
Table type	Multi-instance table
Row name	RiskLevel
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Level	Application layer protocol risk level	Index	Unsigned integer. Value range: 1 to $2^{16} - 1$.	N/A
Boundary	The boundary value of the level	N/A	Unsigned integer. Value range: 0 to $2^{16} - 1$.	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.	<p>If no address range is specified, the device only scans neighbors on the network where the primary IP address of the interface resides.</p> <p>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.</p>
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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">true (default)false	N/A
RateLimitNum	Set the rate limit number	N/A	Unsigned integer. Value range: uiRateLimitLowerLimit to uiRateLimitUpperLimit.	<p>The value of uiRateLimitLowerLimit and uiRateLimitUpperLimit depend on the device model.</p> <p>The default value of RateLimitNum depends on the device model.</p> <p>RateLimitNum can be configured only when RateLimitEnable is true.</p>

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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> true false (default) 	N/A
LocalProxyEnable	Whether the function of local proxy arp on the interface is enable.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">truefalse	The default value of ResolvingRouteEnable depends on the device

				model.
SourceSuppressionEnable	Whether the arp suppression original address function is enable.	N/A	Boolean: <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true • false (default) 	N/A
ActiveACKType	Enable the active ack function	N/A	Unsigned integer. <ul style="list-style-type: none"> • 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		<ul style="list-style-type: none"> • true • false (default) 	
DetectionValidaDstMAC	Whether the effective checks on the destination mac address function is enable	N/A	Boolean: <ul style="list-style-type: none"> • true • false (default) 	N/A
DetectionValidaIP	Whether the effective checks on the ip address is enable.	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.		<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true

			<ul style="list-style-type: none"> false (default)
RestrictedForwardingEnable	Whether the function of restricted forwarding arp packet is enable.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">truefalse	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	<p>This table supports interface types:</p> <p>Layer 2 Ethernet interface</p> <p>Layer 2 aggregate interface</p>
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.	<p>Layer 2 Ethernet interface</p> <p>Layer 2 aggregate interface</p> <p>Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see IfMgr in Ifmgr</p> <p>NETCONF XML API Configuration Reference.</p>
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
    
```



```

    <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: <ul style="list-style-type: none"> true false (default) 	N/A

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ARP/ArpFilterSource	18
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ARP/ArpFilterBinding	19
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Columns	28

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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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	<p>This table supports interface types:</p> <p>Layer 2 Ethernet interface/Layer 2 aggregate interface</p> <p>Layer 3 Ethernet interface/subinterface</p> <p>Layer 3 aggregate interface/aggregate subinterface</p> <p>S-channel interface/S-channel aggregate interface</p> <p>VLAN interface</p>

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	<p>Unsigned integer.</p> <p>Value range: 0 to LearnMaxNumLimit.</p>	<p>0 means the interface is disabled from learning dynamic ARP entries.</p> <p>The value of LearnMaxNumLimit depends on the device model.</p>

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: <ul style="list-style-type: none"> true false 	N/A
LocalProxyEnable	Whether the function of local proxy arp on the interface is enable.	N/A	Boolean: <ul style="list-style-type: none"> 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>
  </ArpAttackProtect>
</ARP>

```



```

    <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: <ul style="list-style-type: none"> true false 	N/A
SourceSuppressionEnable	Whether the arp suppression original address function is enable.	N/A	Boolean: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • true • false 	N/A
ActiveACKT ype	Enable the active ack function	N/A	Unsigned integer. <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true • false 	N/A
DetectionVa litateDstMA C	Whether the effective checks on the destination mac address function is enable.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	N/A
DetectionVa litateIP	Whether the effective checks on the ip address function is enable,	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">truefalse	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: <ul style="list-style-type: none">truefalse	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: <ul style="list-style-type: none"> 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	<p>This table supports interface types:</p> <p>Layer 3 Ethernet interface/subinterface</p> <p>Layer 3 aggregate interface/aggregate subinterface</p>

	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false
RestrictedForwardingEnable	Whether the function of restricted forwarding arp packet is enable.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false 	N/A
SupportFilter	Whether ARP filter is supported..	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
SupportSnopping	Whether ARP Snooping is supported.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">truefalse	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">truefalse	N/A

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ARP

ARP/ArpTable

Message	Explanation
Invalid IP address.	Invalid IP address configuration.

ARP/ArpConfig

Message	Explanation
VPN-Instance does not exist.	The VPN-Instance does not exist when set the configuration.
Invalid MAC address.	Invalid MAC address configuration.
The VLAN doesn't exist.	The VLAN does not exist when set the configuration.
Please create the VLAN interface first.	The VLAN interface does not exist when set the configuration.
Invalid IP address.	Invalid IP address configuration
Can't set S-channel subinterface as the output interface.	Do not support set S-channel subinterface as the output interface.
The port doesn't belong to the VLAN, or the VLAN is not permitted on the port.	The port doesn't belong to the VLAN, or the VLAN is not permitted on the port.
The VPN instance of the configured entry is different from that of the interface.	The VPN instance of the configured entry is different from that of the interface.
The multiport ARP entry contains invalid parameters.	The ARP entry does not have vlans or have port interfaces.
Configuration items don't meet the requirements.	Invalid configuration, please modify configuration under guidance.
Maximum number of ARP entries already reached.	Maximum number of ARP entries already reached,p Please check configuration or specifications
The Ethernet service instance doesn't exist.	The Ethernet service instance doesn't exist,when set the configuration.
The Ethernet interface and Ethernet	The Ethernet interface and Ethernet service instance

Message	Explanation
service instance are not mapped to the VSI.	are not mapped to the VSI, please check configuration.
Failed to configure the static ARP entry because it has the same IP address and output interface as an existing remote static ARP entry.	Failed to configure the static ARP entry because it has the same IP address and output interface as an existing remote static ARP entry.

ARP/ArpLearnLimit

Message	Explanation
Configuration items don't meet the requirements.	Invalid configuration, please modify configuration under guidance.

ARP/ArpGratuitousInterval

Message	Explanation
Maximum number of interfaces enabled with the feature already reached.	Maximum number of interfaces enabled with the feature already reached, please modify configuration under guidance.

ARP/ArpProxy

Message	Explanation
Configuration items don't meet the requirements.	Invalid configuration, please modify configuration under guidance.
Invalid start IPv4 address.	Invalid start IPv4 address.
Invalid end IPv4 address.	Invalid end IPv4 address.
Start IPv4 address must be lower than or equal to end IPv4 address.	Start IPv4 address must be lower than or equal to end IPv4 address, please modify configuration under guidance.

ARP/ArpAttackProtect

Message	Explanation
Configuration items don't meet the	Invalid configuration, please modify configuration

Message	Explanation
requirements.	under guidance.

ARP/ArpRateLimit

Message	Explanation
Failed to set the maximum number of dynamic ARP entries.	The device returned failed when set the maximum number of dynamic ARP entries.
Configuration items don't meet the requirements.	Invalid configuration, please modify configuration under guidance.
The value is out of range.	Invalid configuration, please modify configuration under guidance.

ARP/ArpSourceMACExclude

Message	Explanation
Maximum number of protected MAC addresses already reached.	Maximum number of protected MAC addresses already reached, please check configuration or specifications.

ARP/ArpDetection

Message	Explanation
The VLAN doesn't exist.	The VLAN does not exist when set the configuration.

ARP/ArpFilterSource

Message	Explanation
Maximum number of protected gateway IP addresses already reached.	Maximum number of protected gateway IP addresses already reached, Please check configuration or specifications.
Configuration failed. Please disable ARP filtering first.	Please disable ARP filtering first.

ARP/ArpFilterBinding

Message	Explanation
Configuration items don't meet the requirements.	Invalid configuration, please modify configuration under guidance.
Maximum number of permitted IP-to-MAC bindings already reached.	Maximum number of permitted IP-to-MAC bindings already reached, please modify configuration under guidance.
Configuration failed. Please disable ARP gateway protection first.	Please disable ARP gateway protection first, please modify configuration under guidance.

ARP/ArpSnooping

Message	Explanation
The VLAN doesn't exist.	The VLAN does not exist when set the configuration.

ARP/ArpVsiConfig

Message	Explanation
VPN-Instance does not exist.	The VPN-Instance does not exist when set the configuration.
Invalid MAC address.	Invalid MAC address configuration.
Invalid IP address.	Invalid IP address configuration.
The VPN instance of the configured entry is different from that of the interface.	The VPN instance of the configured entry is different from that of the interface., please modify configuration under guidance.
Configuration items don't meet the requirements.	Invalid configuration, please modify configuration under guidance.
Maximum number of ARP entries already reached.	Maximum number of ARP entries already reached, please check configuration or specifications.
The VSI doesn't exist.	The VSI does not exist when set the configuration.
The VSI interface is not associated with the VSI.	The VSI interface is not associated with the VSI, please check configuration .
The Ethernet service instance doesn't exist.	The Ethernet service instance doesn't exist, please check configuration.

Message	Explanation
The Ethernet interface and Ethernet service instance are not mapped to the VSI.	The Ethernet interface and Ethernet service instance are not mapped to the VSI, please check configuration.

ARP/ArpScan

Message	Explanation
Invalid IP address.	Invalid IP address configuration.
Start IP address must be lower than or equal to end IP address.	Start IP address must be lower than or equal to end IP address, please modify configuration under guidance.
The interface is down or has no IP address configured.	The interface is down or has no IP address configured, please modify configuration under guidance.
The start and end IP addresses must be on the same subnet as the interface IP address.	The start and end IP addresses must be on the same subnet as the interface IP address, please modify configuration under guidance.
ARP scanning is interrupted.	ARP scanning is interrupted, please try again.

ARP/ArpFixup

Message	Explanation
Maximum number of ARP entries already reached.	Maximum number of ARP entries already reached, please modify configuration under guidance.

ARP/ArpClearTable

Message	Explanation
Invalid IP address.	Invalid IP address configuration

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ARPSYNC

ARPSYNC/ARPTable

This table is used to clear all ARP table synchronization informations.

XML structure

```
<ARPSYNC>
  <ClearARPTable>
    <Clear></Clear>
  </ClearARPTable>
</ARPSYNC>
```

Table description

Item	Description
Feature name	ARPSYNC
Table name	ClearARPTable
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clears all ARP table synchronization informations	N/A	This column must be empty.	N/A

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 - XML structure 2
 - Table description 2
 - Columns 3

ARPSYNC

ARPSYNC/ARPCConfig

This table contains ARP table synchronization information.

XML structure

```
<ARPSYNC>
  <ARPCConfig>
    <ARPEnable>
      <Enable></Enable>
      <Interval></Interval>
      <Timeout></Timeout>
    </ARPEnable>
  </ARPCConfig>
</ARPSYNC>
```

Table description

Item	Description
Feature name	ARPSYNC
Table name	ARPCConfig
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
ARPEnable	ARP table synchronization information.	Data structure	Members include: <ul style="list-style-type: none">• Enable• Interval• Timeout	N/A
Enable	Whether to enable the rule.	N/A	Boolean: <ul style="list-style-type: none">• true—Enable.• false—Disable.	N/A
Interval	ARP table synchronization request interval.	N/A	Unassigned integer. Value range: 5 to 30 seconds.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
Timeout	Request timeout.	N/A	Unassigned integer. Value range: 1 to 5 seconds.	N/A.

ARPSYNC/ServerList

This table contains SNMP server information.

XML structure

```

<ARPSYNC>
  <ServerList>
    <ServerConfigInfo>
      <Index></Index>
      <SNMPVersion></SNMPVersion>
      <IPAddress></IPAddress>
      <CommunityName></CommunityName>
      <UserName></UserName>
      <SecurityParam>
        <AuthProtocol></AuthProtocol>
        <AuthKey></AuthKey>
        <PrivProtocol></PrivProtocol>
        <PrivKey></PrivKey>
      </SecurityParam>
    </ServerConfigInfo>
  </ServerList>
</ARPSYNC>

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Index number	Index	Unassigned integer. Value range: 0 to 64.	To create an SNMP server, set this column to 64.
SNMPVersion	SNMP version.	N/A	Enumeration: <ul style="list-style-type: none"> 2—v2c. 3—v3. 	N/A
IPAddress	IP address of the SNMP server.	N/A	IPv4: String, dotted decimal notation.	IPv4 address example: 1.1.1.1.
CommunityName	SNMP v2c community name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Applicable only when 'SNMP version' is 'v2c'.
UserName	SNMP v3 user name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Applicable only when 'SNMP version' is 'v3'.
SecurityParam	Security parameters of this user.	Data structure	Members include: <ul style="list-style-type: none"> AuthProtocol AuthKey PrivProtocol PrivKey 	Applicable only when 'SNMP version' is 'v3'. 'PrivProtocol' and 'PrivKey' must be specified with 'AuthProtocol' and 'AuthKey' together.
AuthProtocol	Authentication algorithm	N/A	Enumeration: <ul style="list-style-type: none"> 0—NoAuth. 1—SHA. 2—MD5. 	N/A
AuthKey	Authentication key	N/A	String. Length: 8 to 64 characters.	Plaintext key string. Must be specified with AuthProtocol.
PrivProtocol	Encryption algorithm for privacy	N/A	Enumeration: <ul style="list-style-type: none"> 0—NoPriv. 1—AES128. 2—DES56. 	N/A
PrivKey	Privacy key	N/A	String. Length: 8 to 64 characters.	Plaintext key string. Must be specified with PrivProtocol.

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XML structure	3
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ARPSYNC

ARPSYNC/ARPCConfig

This table contains ARP table synchronization information.

XML structure

```
<ARPSYNC>
  <ARPCConfig>
    <ARPEnable>
      <Enable></Enable>
      <Interval></Interval>
      <Timeout></Timeout>
    </ARPEnable>
  </ARPCConfig>
</ARPSYNC>
```

Table description

Item	Description
Feature name	ARPSYNC
Table name	ARPCConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ARPEnable	ARP table synchronization information.	Data structure	Members include: <ul style="list-style-type: none">• Enable• Interval• Timeout	N/A
Enable	Whether to enable the rule.	N/A	Boolean: <ul style="list-style-type: none">• true—Enable.• false—Disable.	N/A
Interval	ARP table synchronization request interval.	N/A	Unassigned integer. Value range: 5 to 30 seconds.	N/A
Timeout	Request timeout.	N/A	Unassigned integer.	N/A

			Value range: 1 to 5 seconds.	
--	--	--	------------------------------	--

ARPSYNC/ServerList

This table contains SNMP server information.

XML structure

```

<ARPSYNC>
  <ServerList>
    <ServerConfigInfo>
      <Index></Index>
      <SNMPVersion></SNMPVersion>
      <IPAddress></IPAddress>
      <CommunityName></CommunityName>
      <UserName></UserName>
      <SecurityParam>
        <AuthProtocol></AuthProtocol>
        <AuthKey></AuthKey>
        <PrivProtocol></PrivProtocol>
        <PrivKey></PrivKey>
      </SecurityParam>
    </ServerConfigInfo>
  </ServerList>
</ARPSYNC>

```

Table description

Item	Description
Feature name	ARPSYNC
Table name	ServerList
Table type	Multi-instance table
Row name	ServerConfigInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Index number	Index	Unassigned integer. Value range: 0 to 64.	To create an SNMP server, set this column to 64.
SNMPVersion	SNMP version.	N/A	Enumeration: • 2—v2c.	N/A

			<ul style="list-style-type: none"> 3—v3. 	
IPAddress	IP address of the SNMP server.	N/A	IPv4: String, dotted decimal notation	IPv4 address example: 1.1.1.1.
CommunityName	SNMP v2c community name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Applicable only when 'SNMP version' is 'v2c'.
UserName	SNMP v3 user name.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Applicable only when 'SNMP version' is 'v3'.
SecurityParam	Security parameters of this user.	Data structure	Members include: <ul style="list-style-type: none"> AuthProtocol. AuthKey. PrivProtocol. PrivKey. 	Applicable only when 'SNMP version' is 'v3'. 'PrivProtocol' and 'PrivKey' must be specified with 'AuthProtocol' and 'AuthKey' together.
AuthProtocol	Authentication algorithm.	N/A	Enumeration: <ul style="list-style-type: none"> 0—NoAuth. 1—SHA. 2—MD5. 	N/A
AuthKey	Authentication key.	N/A	String. Length: 8 to 64 characters.	Plaintext key string. Must be specified with 'AuthProtocol'.
PrivProtocol	Encryption algorithm for privacy.	N/A	Enumeration: <ul style="list-style-type: none"> 0—NoPriv. 1—AES128. 2—DES56. 	N/A
PrivKey	Privacy key.	N/A	String. Length: 8 to 64 characters.	Plaintext key string. Must be specified with 'PrivProtocol'.

ARPSYNC/ARPTable

This table contains ARP table synchronization information.

XML structure

```

<ARPSYNC>
  <ARPTable>
    <ARPTableInfo>
      <Index></Index>
      <IPAddr></IPAddr>
      <MACAddr></MACAddr>
      <Aging></Aging>
      <Count></Count>
    </ARPTableInfo>
  </ARPTable>

```


</ARPSYNC>

Table description

Item	Description
Feature name	ARPSYNC
Table name	ARPTable
Table type	Multi-instance table
Row name	ARPTableInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Index	Index number	Index	Unassigned integer. Value range: 0 to 65534.	N/A
IPAddr	IP address	N/A	IPv4: String, dotted decimal notation.	N/A
MACAddr	MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
Aging	Aging time	N/A	Unassigned integer. Value range: 1 to 20 minutes.	N/A
Count	Total number of ARP entries	N/A	Unassigned integer.	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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> • 1—TCP. • 2—UDP. • 3—UDP-Lite. • 4—ICMP. • 5—ICMPv6. • 6—SCTP. • 7—DCCP. • 8—RAWIP.
EnableDetect	Whether enable detection.	N/A	Boolean: <ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none"> • 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. <p>Support for HTTP, SMTP and DNS depends on the device model.</p>
EnableDetect	Whether enable detection.	N/A	Boolean: <ul style="list-style-type: none"> • true—YES • false—NO(default). 	N/A
IllegalPacket Action	Action for illegal packets.	N/A	Enumeration: <ul style="list-style-type: none"> • 0—None. • 1—Drop illegal packets. • 2—Log illegal packets. • 3—Drop and log illegal packets. 	<p>Only the following application support the configuration:</p> <ul style="list-style-type: none"> • 1—FTP. • 3—H323. • 5—SIP. • 12—SCCP. • 15—HTTP. • 16—SMTP. • 17—DNS. <p>Support for this column depends on the device model.</p>

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.	<p>This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.</p> <p>To inspect the traffic through an interface, you must apply a configured ASPF policy to that interface.</p> <p>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.</p>

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> • 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. <p>Support for HTTP, SMTP and DNS depends on the device model.</p>
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: <ul style="list-style-type: none"> • true—YES • false—NO(default). 	N/A
IllegalPacket Action	Action for illegal packets.	N/A	Enumeration: <ul style="list-style-type: none"> • 0—None. • 1—Drop illegal packets. • 2—Log illegal packets. • 3—Drop and log illegal packets. 	<p>Only the following application support the configuration:</p> <ul style="list-style-type: none"> • 1—FTP. • 3—H323. • 5—SIP. • 12—SCCP. • 15—HTTP. • 16—SMTP. • 17—DNS. <p>Support for this column depends on the device model.</p>

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.	<p>This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC, FCB and encrypt interface.</p> <p>To inspect the traffic through an interface, you must apply a configured ASPF policy to that interface.</p> <p>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.</p>

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: <ul style="list-style-type: none"> 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>
    <DetectXDMCP></DetectXDMCP>
```



```
</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: <ul style="list-style-type: none"> true false 	N/A
ZonePairApply	Support apply an ASPF policy to security zone pairs.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
DetectAppAction	Whether support set illegal packet's action of application layer protocol.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
DetectDCCP	Whether support DCCP transport layer protocol detection.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
DetectDNS	Whether support DNS application layer protocol detection.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
DetectFTP	Whether support FTP application layer protocol detection.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
DetectGTP	Whether support GTP application layer protocol detection.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
DetectH323	Whether support H323 application layer protocol detection.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
DetectHTTP	Whether support HTTP application layer protocol detection.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • true • false 	N/A
DetectTFTP	Whether support TFTP application layer protocol detection.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	N/A
DetectUDP	Whether support UDP transport layer protocol detection.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	N/A
DetectUDP-Lite	Whether support UDP-Lite transport layer protocol detection.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	N/A
DetectXDMCP	Whether support XDMCP application layer protocol detection.	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 0—TCP proxy 1—DNS client verification. 2—HTTP client verification. 3—DNS reply verification. 4—SIP client verification.
AddrFamily	Address family	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 0—TCP proxy• 1—DNS client verification.• 2—HTTP client verification.• 3—DNS reply verification.• 4—SIP client verification.
AddrFamily	Address family	Index	Enumeration: <ul style="list-style-type: none">• 2—IPv4.• 10—IPv6.
Clear	Clear trust clients	N/A	This column must be empty.

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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.
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>
      <AclNum></AclNum>
      <AclName></AclName>
    </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
AclNum	Acl number	N/A	Unsigned integer. Value range: 2000 to 3999	AclNum and AclName 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>
      <AclNum></AclNum>
      <AclName></AclName>
    </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>

```


</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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• PortScanEnable• PortScanThreshold• IPSweepEnable• IPSweepThreshold Period	N/A
PortScanEnable	Port scan detection switch.	N/A	Boolean: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> • true • false 	Default is false.
Drop	Drop packet switch	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—DNS flood. 1—HTTP flood. 2—DNS reply flood. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 3—SIP flood. 	
Log	Log switch	N/A	Boolean: <ul style="list-style-type: none"> true false 	Default is false.
Drop	Drop packet switch	N/A	Boolean: <ul style="list-style-type: none"> true false 	Default is false.
ClientVerify	Client verification switch	N/A	Boolean: <ul style="list-style-type: none"> 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 DNS reply flood, default monitored port is 53. For SIP flood, default monitored port is 5060. 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: <ul style="list-style-type: none"> 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>
        <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: <ul style="list-style-type: none">0—Transport layer flood.1—Application layer flood.	N/A
SubType	Sub flood type	Index	Enumeration, value range varies according to MainType.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<p>For transport layer flood:</p> <ul style="list-style-type: none"> • 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. <p>For application layer flood:</p> <ul style="list-style-type: none"> • 0—DNS flood. • 1—HTTP flood. • 2—DNS reply flood. • 3—SIP 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: <ul style="list-style-type: none"> • true • false 	No default value. Should be configured along with drop and clientverify column.
Drop	Drop packet switch	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	No default value. Should be configured along with log and clientverify column.
ClientVerify	Client verification switch	N/A	Boolean: <ul style="list-style-type: none"> • 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.
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: <ul style="list-style-type: none">0—Transport layer flood.1—Application layer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			flood.	
SubType	Sub flood type	Index	<p>Enumeration, value range varies according to MainType.</p> <p>For transport layer flood:</p> <ul style="list-style-type: none"> • 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. <p>For application layer flood:</p> <ul style="list-style-type: none"> • 0—DNS flood. • 1—HTTP flood. • 2—DNS reply flood. • 3—SIP flood. 	N/A
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: <ul style="list-style-type: none"> • true • false 	No default value. Should be configured along with drop and clientverify column.
Drop	Drop packet switch	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	No default value. Should be configured along with log and clientverify column.
ClientVerify	Client verification switch	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">truefalse	Default is false.
TimeValue	Time value	N/A	Unsigned integer.	Default is 1440

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 1200000 minutes.	minutes.
Mode	Learning mode	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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/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

Item	Description
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 type	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 19—Fraggle <p>For IP option single packet attack, SubType is the IP option value, range: 0 to 255.</p> <ul style="list-style-type: none"> 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. <p>For ICMP single packet attack, SubType is the ICMP type value, range: 0 to 255.</p> <ul style="list-style-type: none"> 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. <p>For ICMPv6 single packet attack, SubType is the ICMPv6 type value, range: 0 to 255.</p> <ul style="list-style-type: none"> 128—ICMPv6 echo 	

Column name	Column description	Column type	Data type and restrictions	Remarks
			request. <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true • false 	Default is false.
Drop	Drop packet switch	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 0—Information.• 1—Low.• 2—Medium.• 3—High.	N/A
Log	Log switch	N/A	Boolean: <ul style="list-style-type: none">• true• false	Default value is true
Drop	Drop packet switch	N/A	Boolean: <ul style="list-style-type: none">• 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
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: <ul style="list-style-type: none"> 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>
```



```

    </Blacklist>
</ATK>

```

Table description

Item	Description
Feature name	ATK
Table name	IPv6Blacklists
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
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: <ul style="list-style-type: none">• 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

Item	Description
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.
Enable	Whether to enable the blacklist	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• true• false	Default is false.
Log	Log switch	N/A	Boolean: <ul style="list-style-type: none">• 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.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	

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	N/A	Boolean:	Default is false.

Column name	Column description	Column type	Data type and restrictions	Remarks
	the whitelist function		<ul style="list-style-type: none"> true 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: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none">truefalse	Default is false.

ATK/ClientVerify/Switches

This table contains client verification switch information.

XML structure

```
<ATK>
  <ClientVerify>
    <Switches>
      <Switch>
        <IfIndex></IfIndex>
      </Switch>
    </Switches>
  </ClientVerify>
</ATK>
```



```

        <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	<p>Enumeration:</p> <ul style="list-style-type: none"> • 0—TCP proxy • 1—DNS client verification. • 2—HTTP client verification. • 3—DNS reply verification. • 4—SIP client verification.
VerifyMode	Verification mode	N/A	<p>Enumeration, value range varies according to MainType.</p> <p>For TCP proxy:</p> <ul style="list-style-type: none"> • 0—Shutdown. • 1—SYN cookie. • 2—Safe reset. <p>For DNS client verification:</p> <ul style="list-style-type: none"> • 0—Shutdown. • 1—Truncate. <p>For HTTP client verification:</p>

Column name	Column description	Column type	Data type and restrictions
			<ul style="list-style-type: none"> 0—Shutdown. 1—Redirection. <p>For DNS reply verification:</p> <ul style="list-style-type: none"> 0—DNS request. <p>For SIP client verification:</p> <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—TCP proxy. 1—DNS client verification. 2—HTTP client verification. 3—DNS reply verification. 4—SIP client verification.
VerifyMode	Verification mode	N/A	Enumeration: For TCP proxy: <ul style="list-style-type: none"> 0—Shutdown. 1—SYN cookie. 2—Safe reset. For DNS client verification: <ul style="list-style-type: none"> 0—Shutdown. 1—Truncation. For HTTP client verification: <ul style="list-style-type: none"> 0—Shutdown. 1—Redirection. For DNS reply verification: <ul style="list-style-type: none"> 0—DNS request. For SIP client verification: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 0—TCP proxy• 1—DNS client verification.• 2—HTTP client verification.• 3—DNS reply verification.• 4—SIP 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, HTTP, DNS reply and SIP 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, HTTP, DNS reply and SIP 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: <ul style="list-style-type: none">• 0—TCP proxy• 1—DNS client verification.• 2—HTTP client verification.• 3—DNS reply verification.• 4—SIP 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:	Zero can be set only when TCP proxy is specified, which means detect all

Column name	Column description	Column type	Data type and restrictions	Remarks
			0-65535 For DNS, HTTP, DNS reply and SIP client verification: 1-65535	service ports.

ATK/TopStatisticsSwitch

This table contains ATK top statistics switch configuration.

XML structure

```
<ATK>
  <TopStatisticsSwitch>
    <Enable></Enable>
  </TopStatisticsSwitch>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	TopStatisticsSwitch
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 ATK top statistics function	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO 	N/A

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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
PolicyName	Attack defense policy name	Index	String. Length: 1 to 31 characters.	Case insensitive. Valid characters include letters, digits, underscores (_), and hyphens (-).
ZoneID	Security zone ID	Index	Unsigned integer.	N/A

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>
      <AclNum></AclNum>
      <AclName></AclName>
    </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
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/IPv6Exempts

This table contains IPv6 exemption information

XML structure

```

<ATK>
  <IPv6Exempts>
    <Exempt>
      <PolicyName></PolicyName>
      <AclNum></AclNum>
      <AclName></AclName>
    </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
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/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: <ul style="list-style-type: none"> • 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
			<p>varies according to MainType.</p> <p>For scan:</p> <ul style="list-style-type: none"> • 0—Port scan. • 1—IP sweep. • 2—Distributed IP sweep. <p>For transport layer flood:</p> <ul style="list-style-type: none"> • 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. <p>For application layer flood:</p> <ul style="list-style-type: none"> • 0—DNS flood. • 1—HTTP flood. • 2—DNS reply flood. • 3—SIP flood. <p>For named single packet attack:</p> <ul style="list-style-type: none"> • 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 <p>For IP option single packet</p>

Column name	Column description	Column type	Data type and restrictions
			<p>attack, SubType is the IP option value, range: 0 to 255.</p> <p>For ICMP single packet attack, SubType is the ICMP type value, range: 0 to 255.</p> <p>For ICMPv6 single packet attack, SubType is the ICMPv6 type value, range: 0 to 255.</p> <p>For IPv6 extend header single packet attack, SubType is the header type value, range: 0 to 255.</p>
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
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> For scan attacks: <ul style="list-style-type: none"> 0—Port scan. 1—IP sweep. 2—Distributed IP sweep. For transport layer floods: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—DNS flood.

Column name	Column description	Column type	Data type and restrictions
			<ul style="list-style-type: none"> ○ 1—HTTP flood. ○ 2—DNS reply flood. ○ 3—SIP flood. • For named single-packet attacks: <ul style="list-style-type: none"> ○ 0—IP fragment attack. ○ 1—IP impossible attack. ○ 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>
    <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: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions
			<ul style="list-style-type: none"> 7—IPv6 extend header attack.
SubType	Sub attack type	Index	<p>Enumeration, value range varies according to MainType.</p> <p>For scan:</p> <ul style="list-style-type: none"> 0—Port scan. 1—IP sweep. 2—Distributed IP sweep. <p>For transport layer flood:</p> <ul style="list-style-type: none"> 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. <p>For application layer flood:</p> <ul style="list-style-type: none"> 0—DNS flood. 1—HTTP flood. 2—DNS reply flood. 3—SIP flood. <p>For named single packet attack:</p> <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions
			<ul style="list-style-type: none"> 19—Fraggle <p>For IP option single packet attack, SubType is the IP option value, range: 0 to 255.</p> <p>For ICMP single packet attack, SubType is the ICMP type value, range: 0 to 255.</p> <p>For ICMPv6 single packet attack, SubType is the ICMPv6 type value, range: 0 to 255.</p> <p>For IPv6 extend header single packet attack, SubType is the header type value, range: 0 to 255.</p>
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>
    </Policies>
  </Scan>
</ATK>

```



```

    <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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • PortScanEnable • PortScanThreshold • IPSweepEnable • IPSweepThreshold • Period 	N/A
PortScanEnable	Port scan detection switch.	N/A	Boolean: <ul style="list-style-type: none"> • 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
IPSweepEnable	IP sweep detection switch.	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	N/A
IPSweepThreshold	IP sweep detection threshold.	N/A	Signed integer. Value range: 1 to 1000000000 pps.	Value must be set if IPSweepEnable is true.
Period	Detection cycle	N/A	Signed integer. Value range: 1 to 1000000000 seconds.	N/A
Log	Log switch	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
Drop	Drop packet switch	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
			<ul style="list-style-type: none"> 7—ICMPv6 flood. <p>For application layer flood:</p> <ul style="list-style-type: none"> 0—DNS flood. 1—HTTP flood. 2—DNS reply flood. 3—SIP flood. 	
Log	Log switch	N/A	Boolean: <ul style="list-style-type: none"> true false 	Default is false.
Drop	Drop packet switch	N/A	Boolean: <ul style="list-style-type: none"> true false 	Default is false.
ClientVerify	Client verification switch	N/A	Boolean: <ul style="list-style-type: none"> 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. For DNS reply flood, default monitored port is 53. For SIP flood, default monitored port is 5060. At most specify a maximum of 32 port items.
NonSpecificSwitch	Non specific protect hosts detect switch	N/A	Boolean: <ul style="list-style-type: none"> 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>
        <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: <ul style="list-style-type: none">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:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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. <p>For application layer flood:</p> <ul style="list-style-type: none"> 0—DNS flood. 1—HTTP flood. 2—DNS reply flood. 3—SIP 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: <ul style="list-style-type: none"> true false 	No default value. Should be configured along with drop and clientverify column.
Drop	Drop packet switch	N/A	Boolean: <ul style="list-style-type: none"> true false 	No default value. Should be configured along with log and clientverify column.
ClientVerify	Client verification switch	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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. <p>For application layer flood:</p> <ul style="list-style-type: none"> 0—DNS flood. 1—HTTP flood. 2—DNS reply flood. 3—SIP 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: <ul style="list-style-type: none"> true false 	No default value. Should be configured along with drop and clientverify column.
Drop	Drop packet switch	N/A	Boolean: <ul style="list-style-type: none"> true false 	No default value. Should be configured along with log and clientverify column.
ClientVerify	Client verification switch	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">truefalse	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: <ul style="list-style-type: none">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

Column name	Column description	Column type	Data type and restrictions	Remarks
				useful. Default is 1440 minutes.
AutoApply	Auto application switch	N/A	Boolean: <ul style="list-style-type: none"> 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>
        <DNSReply></DNSReply>
        <SIP></SIP>
      </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: <ul style="list-style-type: none"> 0—Initialize. 1—Stop. 2—learning. 	N/A
LastResultInterval	Time elapsed since last result	N/A	Unsigned integer. Value range: 0 to 4294967295 second.	N/A
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	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	ICMPv6 packets		Value range: 0 to 4294967295 pps.	
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
DNSReply	Learning result of DNS reply packets	N/A	Unsigned integer. Value range: 0 to 4294967295 pps.	N/A
SIP	Learning result of SIP 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>
        <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

Item	Description
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: <ul style="list-style-type: none"> 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	<p>Enumeration, value range varies according to MainType.</p> <p>For named single packet attack:</p> <ul style="list-style-type: none"> 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 <p>For IP option single packet attack, SubType is the IP option value, range: 0 to</p>	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<p>255.</p> <ul style="list-style-type: none"> • 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. <p>For ICMP single packet attack, SubType is the ICMP type value, range: 0 to 255.</p> <ul style="list-style-type: none"> • 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. <p>For ICMPv6 single packet attack, SubType is the ICMPv6 type value, range: 0 to 255.</p> <ul style="list-style-type: none"> • 128—ICMPv6 echo request. • 129—ICMPv6 echo reply. • 130—ICMPv6 group query. • 131—ICMPv6 group 	

Column name	Column description	Column type	Data type and restrictions	Remarks
			report. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false 	Default is false.
Drop	Drop packet switch	N/A	Boolean: <ul style="list-style-type: none"> true false 	Default is false.
Level	Severity level	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 0—Information.• 1—Low.• 2—Medium.• 3—High.	N/A
Log	Log switch	N/A	Boolean: <ul style="list-style-type: none">• true• false	Default value is true
Drop	Drop packet switch	N/A	Boolean: <ul style="list-style-type: none">• 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>
```



```

    </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: <ul style="list-style-type: none"> 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 circumstances.
AddType	Add type	N/A	Enumeration: <ul style="list-style-type: none">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: <ul style="list-style-type: none">0—Manual add.

Column name	Column description	Column type	Data type and restrictions
			<ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> true false 	Default is false.
Log	Log switch	N/A	Boolean: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				document of your product. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Enable	Enabling status of the whitelist function	N/A	Boolean: <ul style="list-style-type: none"> 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	Enabling status of the whitelist	N/A	Boolean: <ul style="list-style-type: none">truefalse	N/A

ATK/Whitelist/GlobalSwitches

This table contains whitelist global enabling status 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
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enabling status of the global configuration.	N/A	Boolean: <ul style="list-style-type: none">truefalse	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: <ul style="list-style-type: none">• 0—TCP proxy• 1—DNS client verification.• 2—HTTP client verification.• 3—DNS reply verification.• 4—SIP client verification.
VerifyMode	Verification mode	N/A	Enumeration, value range varies according to MainType.

Column name	Column description	Column type	Data type and restrictions
			<p>For TCP proxy:</p> <ul style="list-style-type: none"> 0—Shutdown. 1—SYN cookie. 2—Safe reset. <p>For DNS client verification:</p> <ul style="list-style-type: none"> 0—Shutdown. 1—Truncate. <p>For HTTP client verification:</p> <ul style="list-style-type: none"> 0—Shutdown. 1—Redirection. <p>For DNS reply verification:</p> <ul style="list-style-type: none"> 0—DNS request. <p>For SIP client verification:</p> <ul style="list-style-type: none"> 0—Shutdown. 1—Option.

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

Item	Description
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: <ul style="list-style-type: none"> 0—TCP proxy. 1—DNS client verification. 2—HTTP client verification. 3—DNS reply verification. 4—SIP client verification.
VerifyMode	Verification mode	N/A	Enumeration: For TCP proxy: <ul style="list-style-type: none"> 0—Shutdown. 1—SYN cookie. 2—Safe reset. For DNS client verification: <ul style="list-style-type: none"> 0—Shutdown. 1—Truncation. For HTTP client verification: <ul style="list-style-type: none"> 0—Shutdown. 1—Redirection. For DNS reply verification: <ul style="list-style-type: none"> 0—DNS request. For SIP client verification: <ul style="list-style-type: none"> 0—Shutdown. 1—Option.

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: <ul style="list-style-type: none"> 0—TCP proxy 1—DNS client verification. 2—HTTP client verification. 3—DNS reply verification. 4—SIP client verification. 	N/A
VrfIndex	Vrf index	Index	Unsigned integer, 0	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			represents public vrf.	
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: 0-65535 For DNS, DNS reply, SIP 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, DNS reply, SIP and HTTP client verification, port number 0 is unavailable.
AddType	Add type	N/A	Enumeration: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> 0—TCP proxy 1—DNS client verification. 2—HTTP client verification. 3—DNS reply verification. 4—SIP 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, DNS reply, SIP 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, DNS reply, SIP and HTTP client verification, port number 0 is unavailable.
AddType	Add type	N/A	Enumeration: <ul style="list-style-type: none"> 0—Manual add. 1—Automatic add. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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	Index	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	where the client resides		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: <ul style="list-style-type: none"> • 0—TCP proxy • 1—DNS client verification. • 2—HTTP client verification. • 3—DNS reply verification. • 4—SIP client verification.
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: <ul style="list-style-type: none">• 0—TCP proxy• 1—DNS client verification.• 2—HTTP client verification.• 3—DNS reply verification.• 4—SIP 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
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: <ul style="list-style-type: none"> True false
LocalApply	Support apply a attack-defense policy to local host	N/A	Boolean: <ul style="list-style-type: none"> True false
ClientVerify	Support client-verify feature.	N/A	Boolean: <ul style="list-style-type: none"> True false

ATK/TopStatisticsSwitch

This table contains ATK top statistics switch configuration.

XML structure

```

<ATK>
  <TopStatisticsSwitch>
    <Enable></Enable>
  </TopStatisticsSwitch>
</ATK>

```


Table description

Item	Description
Feature name	ATK
Table name	TopStatisticsSwitch
Table type	Single-instance table
Row name	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether enable ATK top statistics function	N/A	Boolean: <ul style="list-style-type: none">truefalse	N/A

ATK/TopStatisticsSampleTime

This table contains sample time for the top statistics in a period.

XML structure

```
<ATK>
  <TopStatisticsSampleTime>
    <Item>
      <Type></Type>
      <Period></Period>
      <SampleTime></SampleTime>
    </Item>
  </TopStatisticsSampleTime>
</ATK>
```

Table description

Item	Description
Feature name	Session
Table name	TopStatisticsSampleTime
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: <ul style="list-style-type: none">• 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. <ul style="list-style-type: none">• 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.

ATK/TopAttackStatisticsByIP

This table contains top statistics for attack.

XML structure

```
<ATK>
  <TopAttackStatisticsByIP>
    <Statistics>
      <Type></Type>
      <Period></Period>
      <Sequence></Sequence>
      <Address>
        <IPv4Addr></IPv4Addr>
        <IPv6Addr></IPv6Addr>
      </Address>
      <VRF></VRF>
      <AttackType></AttackType>
      <AttackTimes></AttackTimes>
      <SampleCount></SampleCount>
    </Statistics>
  </TopAttackStatisticsByIP>
</ATK>
```

Table description

Item	Description
Feature name	Session

Table name	TopAttackStatisticsByIP
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of top statistics	Index	Enumeration: <ul style="list-style-type: none"> 0—Top statistics by source address. 1—Top statistics by destination address. 	N/A
Period	Period of history attack statistics	Index	Enumeration: <ul style="list-style-type: none"> 0—1 hour. 1—1 day. 2—30 days. 	N/A
Sequence	Sequence number of top statistics	Index	Unsigned integer. Value range: 1 to 10.	N/A
Address	Source or destination network layer address	Data structure	Members include: <ul style="list-style-type: none"> 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.
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.
AttackType	AttackType	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
AttackTimes	Attack times	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
SampleCount	SampleCount	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A

ATK/TopAttackStatisticsByType

This table contains top statistics for attack.

XML structure

```
<ATK>
  <TopAttackStatisticsByType>
    <Statistics>
      <Period></Period>
      <AttackType></AttackType>
      <AttackTimes></AttackTimes>
    </Statistics>
  </TopAttackStatisticsByType>
</ATK>
```

Table description

Item	Description
Feature name	Session
Table name	TopAttackStatisticsByType
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Period	Period of history attack statistics	Index	Enumeration: <ul style="list-style-type: none">• 0—1 hour.• 1—1 day.• 2—30 days.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AttackType	Attack type.	Index	Enumeration: <ul style="list-style-type: none"> • 0 ATK_TOPHIS_FLOOD_SYN • 1 ATK_TOPHIS_FLOOD_ACK • 2 ATK_TOPHIS_FLOOD_SYNACK • 3 ATK_TOPHIS_FLOOD_RST • 4 ATK_TOPHIS_FLOOD_FIN • 5 ATK_TOPHIS_FLOOD_UDP • 6 ATK_TOPHIS_FLOOD_ICMP • 7 ATK_TOPHIS_FLOOD_ICMPV6 • 8 ATK_TOPHIS_FLOOD_DNS • 9 ATK_TOPHIS_FLOOD_HTTP • 10 ATK_TOPHIS_SCAN_PORT • 11 ATK_TOPHIS_SCAN_IP_SWEEP • 12 ATK_TOPHIS_SCAN_DIST • 13 ATK_TOPHIS_TCP_FRAGMENT • 14 ATK_TOPHIS_CLIENTVERIFY • 15 ATK_TOPHIS_BLACKLIST • 16 ATK_TOPHIS_BLACKLIST_USER • 17 ATK_TOPHIS_SIGL3 • 18 ATK_TOPHIS_SIGL4 • 19 AT • K_TOPHIS_SMURF • 20 ATK_TOPHIS_URPF • 21 ATK_TOPHIS_FLOOD_DNS_REPLY • 22 ATK_TOPHIS_FLOOD_SIP 	N/A
AttackTimes	Attack times	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

ATK/ScanAttackTypes

This table contains scan attack types information of the current device.

XML structure

```

<ATK>
  <ScanAttackTypes>
    <AttackType>
      <Digest></Digest>
      <AttackTypeName></AttackTypeName>
    </AttackType>
  </ScanAttackTypes>
</ATK>

```


Table description

Item	Description
Feature name	ATK
Table name	ScanAttackTypes
Table type	Multi-instance table
Row name	AttackType
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Digest	Name of digest	Index	String. Length: 1 to 32 characters.
AttackTypeName	Name of attack type	N/A	String. Length: 1 to 32 characters.

ATK/FloodAttackTypes

This table contains flood attack types information of the current device.

XML structure

```
<ATK>
  <FloodAttackTypes>
    <AttackType>
      <Digest></Digest>
      <AttackTypeName></AttackTypeName>
    </AttackType>
  </FloodAttackTypes>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	FloodAttackTypes
Table type	Multi-instance table
Row name	AttackType
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Digest	Name of digest	Index	String. Length: 1 to 32 characters.
AttackTypeName	Name of attack type	N/A	String. Length: 1 to 32 characters.

ATK/SignatureAttackTypes

This table contains signature attack types information of the current device.

XML structure

```
<ATK>
  <SignatureAttackTypes>
    <AttackType>
      <Digest></Digest>
      <AttackTypeName></AttackTypeName>
    </AttackType>
  </SignatureAttackTypes>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	SignatureAttackTypes
Table type	Multi-instance table
Row name	AttackType
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Digest	Name of digest	Index	String. Length: 1 to 32 characters.
AttackTypeName	Name of attack type	N/A	String. Length: 1 to 32 characters.

ATK/BlacklistTypes

This table contains blacklist types information of the current device.

XML structure

```
<ATK>
  <BlacklistTypes>
    <Type>
      <Digest></Digest>
      <TypeName></TypeName>
    </Type>
  </BlacklistTypes>
</ATK>
```

Table description

Item	Description
Feature name	ATK
Table name	BlacklistTypes
Table type	Multi-instance table
Row name	Type
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions
Digest	Name of digest	Index	String. Length: 1 to 32 characters.
TypeName	Name of type	N/A	String. Length: 1 to 32 characters.

Contents

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ATK/Blacklist/IPv6Blacklists	3
ATK/Whitelist/ZoneSwitches	4
ATK/Whitelist/IPv4ObjItems	4
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ATK

ATK/IPv4Exempts

Message	Explanation
Please specify an ACL by either its number or its name.	During executing create、merge or replace operation, ACL numer and ACL name are mutual exclusive and only one of them can be set in a single message.

ATK/IPv6Exempts

Message	Explanation
Please specify an ACL by either its number or its name.	During executing create、merge or replace operation, ACL numer and ACL name are mutual exclusive and only one of them can be set in a single message.

ATK/Scan/Policies

Message	Explanation
Please specify the detection sensitivity before specifying defense actions.	During executing configuration operation(create、merge、replace、delete or remove), Please specify the detection sensitivity before specifying defense actions.
Please specify at least one defense action.	During executing configuration operation(create、merge、replace、delete or remove),please specify at least one defense action.
The drop and block-source actions cannot be both specified.	During executing configuration operation(create、merge、replace、delete or remove),drop and BlockSource are mutual exclusive and only one of them can be set in a single message.
The blacklist aging time can only be set for the block-source action.	During executing configuration operation(create、merge、replace、delete or remove), the blacklist aging time can only be set for the block-source action.
At least one of scan attack detect ways should be specified.	During executing configuration operation(create、merge、replace、delete or remove), at least one of scan attack detect ways should be specified.
The port scan attack detect switch and the port scan attack detect threshold should all be set or neither be set.	During executing configuration operation(create、merge、replace、delete or remove), the port scan attack detect switch and the port scan attack detect threshold should all be set or neither be set.
The IP scan attack detect switch and the IP attack detect threshold should all be set or neither be set.	During executing configuration operation(create、merge、replace、delete or remove), the IP scan attack detect switch and the IP attack detect threshold should all be set or neither be set.
Ipsweep switch and portscan switch cannot be open when the detect level is UNDO.	During executing configuration operation(create、merge、replace、delete or remove), IP sweep switch and port scan switch cannot be open when the detect level is UNDO.

ATK/Flood/DefaultConfigs

Message	Explanation
The operation is not supported on the device.	During executing create、merge or replace operation, the client verification operation is must supported on the device.
The flood attack type doesn't exist.	During executing configuration operation(create、merge、replace、delete or remove) or get operation, the flood attack type must exist.
Client verification is not an available defense action for this flood attack.	During executing configuration operation(create、merge、replace、delete or remove) or get operation, client verification is not an available defense action for this flood attack.
Only HTTP DNS DNS-REPLY and SIP flood attack defense supports port configuration.	During executing configuration operation(create、merge、replace、delete or remove) or get operation,only HTTP DNS DNS-REPLY and SIP flood attack defense supports port configuration.
The number of detection ports exceeds the upper limit.	During executing configuration operation(create、merge、replace、delete or remove) or get operation,the number of detection ports must not exceeds the upper limit.

ATK/Flood/IPv4ProtectHosts

Message	Explanation
The operation is not supported on the device.	During executing create、merge or replace operation, the client verification operation is must supported on the device.
The flood attack type doesn't exist.	During executing configuration operation(create、merge、replace、delete or remove) or get operation, the flood attack type must exist.
Client verification is not an available defense action for this flood attack.	During executing configuration operation(create、merge、replace、delete or remove) or get operation, client verification is not an available defense action for this flood attack.
Only HTTP DNS DNS-REPLY and SIP flood attack defense supports port configuration.	During executing configuration operation(create、merge、replace、delete or remove) or get operation,only HTTP DNS DNS-REPLY and SIP flood attack defense supports port configuration.
The number of detection ports exceeds the upper limit.	During executing configuration operation(create、merge、replace、delete or remove) or get operation,the number of detection ports must not exceeds the upper limit.
Invalid IP address.	During executing configuration operation(create、merge、replace、delete or remove) or get operation, the IP address is must valid.

ATK/Flood/IPv6ProtectHosts

Message	Explanation
The operation is not supported on the device.	During executing create、merge or replace operation, the client verification operation is must supported on the device.
The flood attack type doesn't exist.	During executing configuration operation(create、merge、replace、delete or remove) or get operation, the flood attack type must

	exist.
Client verification is not an available defense action for this flood attack.	During executing configuration operation(create、merge、replace、delete or remove) or get operation, client verification is not an available defense action for this flood attack.
Only HTTP DNS DNS-REPLY and SIP flood attack defense supports port configuration.	During executing configuration operation(create、merge、replace、delete or remove) or get operation,only HTTP DNS DNS-REPLY and SIP flood attack defense supports port configuration.
The number of detection ports exceeds the upper limit.	During executing configuration operation(create、merge、replace、delete or remove) or get operation,the number of detection ports must not exceeds the upper limit.
Invalid IP address.	During executing configuration operation(create、merge、replace、delete or remove) or get operation, the IP address is must valid.

ATK/Signature/Detects

Message	Explanation
The single-packet attack type doesn't exist.	During executing configuration operation(create、merge、replace、delete or remove) or get operation, the single-packet attack type must exist.

ATK/Blacklist/ZoneSwitches

Message	Explanation
The operation is not supported on Local zone.	During executing configuration operation(create、merge、replace、delete or remove) or get operation, The operation is not supported on Local zone.

ATK/Blacklist/IPv4Blacklists

Message	Explanation
The VRF instance doesn't exist.	During executing create、merge or replace operation, the specified VPN instance must exist.

ATK/Blacklist/IPv6Blacklists

Message	Explanation
The VRF instance doesn't exist.	During executing create、merge or replace operation, the specified VPN instance must exist.

ATK/Whitelist/ZoneSwitches

Message	Explanation
The operation is not supported on Local zone.	During executing configuration operation(create、merge、replace、delete or remove) or get operation, The operation is not supported on Local zone.

ATK/Whitelist/IPv4ObjItems

Message	Explanation
The IP address object group doesn't exist.	During executing configuration operation(create、merge、replace、delete or remove),the IP address object group must exist.
The object group is not an IP address object group.	During executing configuration operation(create、merge、replace、delete or remove),the object group is must an IP address object group.

ATK/Whitelist/IPv6ObjItems

Message	Explanation
The IP address object group doesn't exist.	During executing configuration operation(create、merge、replace、delete or remove),the IP address object group must exist.
The object group is not an IP address object group.	During executing configuration operation(create、merge、replace、delete or remove),the object group is must an IP address object group.

ATK/ClientVerify/IPv4ProtectHosts

Message	Explanation
The VRF instance doesn't exist.	During executing configuration operation(create、merge、replace、delete or remove) or get operation, the specified VPN instance must exist.
Invalid IP address.	During executing configuration operation(create、merge、replace、delete or remove) or get operation, the IP address is must valid.

ATK/ClientVerify/IPv6ProtectHosts

Message	Explanation
The VRF instance doesn't exist.	During executing configuration operation(create、merge、replace、delete or remove) or get operation, the specified VPN instance must exist.
Invalid IP address.	During executing configuration operation(create、merge、replace、delete or remove) or get operation, the IP address is must valid.

ATK/ClientVerify/Switches

Message	Explanation
The verification mode is not supported.	During executing create、merge or replace operation,the verification mode is must supported.

ATK/ClientVerify/ZoneSwitches

Message	Explanation
The verification mode is not supported.	During executing create、merge or replace operation,the verification mode is must supported.
The operation is not supported on Local zone.	During executing configuration operation(create、merge、replace、delete or remove) or get operation, The operation is not supported on Local zone.

ATK/TopStatisticsSwitch

Message	Explanation
The stop process is running. Please try it later.	During executing create、merge、replace or action operation, The close operation must been completed.

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AUDIT

AUDIT/SignatureManualUpgrade

This table contains the information of AUDIT signatures manual upgrading.

XML structure

```
<AUDIT>
  <SignatureManualUpgrade>
    <URL></URL>
    <Location></Location>
  </SignatureManualUpgrade>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
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 imported rule 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.	N/A
Location	The Location of the file	N/A	Enumeration: <ul style="list-style-type: none">0—local.1—remote.	N/A

AUDIT/SignatureAutoUpgradeNow

This table contains the information of AUDIT signatures auto upgrading at once.

XML structure

```
<AUDIT>
  <SignatureAutoUpgradeNow>
    <AutoUpgradeNow></AutoUpgradeNow>
  </SignatureAutoUpgradeNow>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
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	Auto upgrade at once	N/A	This column must be empty.	N/A

AUDIT/SignatureRollback

This table contains the information of AUDIT signatures rollback.

XML structure

```
<AUDIT>
  <SignatureRollback>
    <Rollback></Rollback>
  </SignatureRollback>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
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: <ul style="list-style-type: none"> true: rollback last version. false: rollback original version. 	N/A

AUDIT/PolicyMove

This table contains information about the AUDIT's policy move.

XML structure

```

<AUDIT>
  <PolicyMove>
    <Move>
      <SrcPolicyName></SrcPolicyName>
      <DesPolicyName></DesPolicyName>
      <MoveType></MoveType>
    </Move>
  </PolicyMove>
</AUDIT>

```

Table description

Item	Description
Feature name	AUDIT
Table name	PolicyMove
Table type	Multi-instance table
Row name	Move
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPolicyName	Source Policy Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
DesPolicyName	Destination	Index	String: case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
me	Policy Name		Length: 1 to 63 characters.	
MoveType	Moving type for the policy	N/A	Enumeration: <ul style="list-style-type: none"> • 0—Move after a policy. • 1—Move before a policy. 	N/A

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Columns	5
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XML structure	6
Table description	6
Columns	6
AUDIT/SignatureAutoUpgrading	7
XML structure	7
Table description	8
Columns	8

AUDIT

AUDIT/Policies

This table contains information about the AUDIT's policy.

XML structure

```
<AUDIT>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <Disable></Disable>
      <TimeRangeName></TimeRangeName>
      <DefaultRuleAction></DefaultRuleAction>
      <PolicyType></PolicyType>
      <RuleMatchType></RuleMatchType>
    </Policy>
  </Policies>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
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	Policy Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
Disable	Set this value to true to disable the policy	N/A	Boolean: <ul style="list-style-type: none">true.false.	N/A
TimeRangeName	Time Range Name	N/A	String: case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyType	Policy Type	N/A	Enumeration: <ul style="list-style-type: none"> 0—NoAudit. 1—Audit. 2—Deny. 	The policy type must be set when policy is created.
DefaultRuleAction	Default Rule Action	N/A	Enumeration: <ul style="list-style-type: none"> 0—Permit. 1—Deny. 	N/A
RuleMatchType	Rule Matching Type	N/A	Enumeration: <ul style="list-style-type: none"> 0—Order. 1—Full. 	N/A

AUDIT/PolicyOptions

This table contains some multiple option information about the AUDIT's policy.

XML structure

```

<AUDIT>
  <PolicyOptions>
    <Option>
      <PolicyName></PolicyName>
      <OptionType></OptionType>
      <OptionValue></OptionValue>
    </Option>
  </PolicyOptions>
</AUDIT>

```

Table description

Item	Description
Feature name	AUDIT
Table name	PolicyOptions
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
PolicyName	Policy Name	Index	String: case-insensitive. Length: 1 to 63 characters.	Name can not be same with its siblings. It is Mandatory.
OptionType	Type of the option in the policy	Index	Enumeration: <ul style="list-style-type: none"> • 1—SourceZones. • 2—DestZones. • 3—SourceIPv4AddressSets. • 4—SourceIPv6AddressSets. • 5—DestIPv4AddressSets. • 6—DestIPv6AddressSets. • 7—Users. • 8—User Groups. • 9—Applications. • 10—AppGroups. • 11—Service. 	N/A
OptionValue	Value of the special option type in the policy	Index	String: case-insensitive. Length: 1 to 63 characters (for OptionTypes 9 and 10). Length: 1 to 31 characters (for OptionTypes 1 through 6, and OptionType 11). Length: 1 to 480 characters (for OptionTypes 7 and 8).	Values of OptionTypes 7 and 8 are in Json format.

AUDIT/DefaultPolicyAction

This table contains information about the AUDIT's default policy action.

XML structure

```

<AUDIT>
  <DefaultPolicyAction>
    <DefaultAction>
      <Action></Action>
    </DefaultAction>
  </DefaultPolicyAction>
</AUDIT>

```

Table description

Item	Description
Feature name	AUDIT
Table name	DefaultPolicyAction
Table type	Multi-instance table

Row name	DefaultAction
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Packet Action which not match any Audit's policy	N/A	Enumeration: <ul style="list-style-type: none"> 0—Permit. 1—Deny. 	N/A

AUDIT/ AppPolicyKeywordGroups

This table contains information about the AUDIT's keywordgroup.

XML structure

```

<AUDIT>
  <AppPolicyKeywordGroups>
    <KeywordGroup>
      <KeywordGroupName></KeywordGroupName>
      <Description></Description>
      <RefCnt></RefCnt>
    </KeywordGroup>
  </AppPolicyKeywordGroups>
</AUDIT>

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KeywordGroup pName	Keyword Group	Index	String: case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Name		Length: 1 to 63 characters.	
Description	Description about keyword group	N/A	String: case-insensitive Length: 1 to 256 characters.	N/A
RefCnt	Refer count about keyword group	N/A	Unsigned integer: Value range: 0 to $2^{16} - 1$.	N/A

AUDIT/Keywords

This table contains information about the keywords of keywordgroup.

XML structure

```

<AUDIT>
  <Keywords>
    <Keyword>
      <KeywordGroupName></KeywordGroupName>
      <Keyword></Keyword>
    </Keyword>
  </Keywords>
</AUDIT>

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KeywordGroup pName	Keyword Group Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
Keyword	Keyword of matching the application behavior content	Index	String: case-sensitive. Length: 1 to 63 characters.	N/A

AUDIT/PolicyRules

This table contains the information of a Audit Rule in specify policy.

XML structure

```
<AUDIT>
  <PolicyRules>
    <Rule>
      <PolicyName></PolicyName>
      <RuleID></RuleID>
      <AppCategoryID></AppCategoryID>
      <AppID></AppID>
      <BehaviorID></BehaviorID>
      <BhContentID></BhContentID>
      <FilterType></FilterType>
      <MatchType></MatchType>
      <KeywordGroupName></KeywordGroupName>
      <Number></Number>
      <PktAction></PktAction>
      <AuditLogging></AuditLogging>
    </Rule>
  </PolicyRules>
</AUDIT>
```

Table description

Item	Description
Feature name	Audit
Table name	PolicyRules
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	Policy Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RuleID	Rule ID	Index	Unsigned integer: Value range: 1 to 64.	N/A
AppCategoryl	App Category	N/A	Unsigned integer:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
D	ID		Value range: 0 to $2^{32} - 1$.	
AppID	Application layer protocol ID	N/A	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
BehaviorID	Application Behavior ID	N/A	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
BhContentID	Application behavior content ID	N/A	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
FilterType	Filter type the application behavior content	N/A	Enumeration: <ul style="list-style-type: none"> 0—Keyword Filter. 1—Number Filter. 	N/A
KeywordGroup Name	Keyword Group Name	N/A	String: case-insensitive. Length: 1 to 63 characters.	Contain the keyword for matching application behavior content.
Number	Number	N/A	Unsigned integer: Value range: 0 to $2^{32} - 1$.	Number for matching the application behavior content.
MatchType	Match Type	N/A	Enumeration: <ul style="list-style-type: none"> 0—Equal. 1—Greater. 2—Less. 3—Include. 4—Greater or Equal. 5—Less or Equal. 6—Unequal. 7—Exclude. 	N/A
PktAction	Packet Action	N/A	Enumeration: <ul style="list-style-type: none"> 0—Permit. 1—Deny. 	N/A
AuditLogging	Whether or not send the Audit Logging	N/A	Enumeration: <ul style="list-style-type: none"> 0—Don't Send Audit log. 1—Send Audit log. 	N/A

AUDIT/SignatureAutoUpgrading

This table contains the information of AUDIT signatures auto upgrading.

XML structure

```

<AUDIT>
  <SignatureAutoUpgrading>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrading>

```


</AUDIT>

Table description

Item	Description
Feature name	AUDIT
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: <ul style="list-style-type: none">• true.• false.	N/A
StartTime	The time that the system auto upgrading	N/A	Date Time. Format: HH:MM:SS	N/A
Type	Type of the system auto upgrading	N/A	Enumeration: <ul style="list-style-type: none">• 0—Week.• 1—periodic.	N/A
Day	Days	N/A	Unsigned integer: Value range: 0-6.	When Type is 0, the value range is 0 to 6. Otherwise, the value is invalid.

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XML structure	17
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AUDIT

AUDIT/ Policies

This table contains information about the AUDIT's policy.

XML structure

```
<AUDIT>
  <Policies>
    <Policy>
      <PolicyName></PolicyName>
      <Disable></Disable>
      <TimeRangeName></TimeRangeName>
      <DefaultRuleAction></DefaultRuleAction>
      <PolicyType></PolicyType>
      <RuleMatchType></RuleMatchType>
    </Policy>
  </Policies>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
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	Policy Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
Disable	Set this value to true to disable the policy	N/A	Boolean: <ul style="list-style-type: none">true.false.	N/A
TimeRangeName	Time Range Name	N/A	String: case-insensitive. Length: 1 to 63 characters.	N/A
PolicyType	Policy Type	N/A	Enumeration: <ul style="list-style-type: none">0—NoAudit.	The policy type must be set when policy is

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 1—Audit. 2—Deny. 	created.
DefaultRuleAction	Default Rule Action	N/A	Enumeration: <ul style="list-style-type: none"> 0—Permit. 1—Deny. 	N/A
RuleMatchType	Rule Matching Type	N/A	Enumeration: <ul style="list-style-type: none"> 0—Order. 1—Full. 	N/A

AUDIT/PolicyOptions

This table contains some multiple information about the AUDIT's policy.

XML structure

```

<AUDIT>
  <PolicyOptions>
    <Option>
      <PolicyName></PolicyName>
      <OptionType></OptionType>
      <OptionValue></OptionValue>
    </Option>
  </PolicyOptions>
</AUDIT>

```

Table description

Item	Description
Feature name	AUDIT
Table name	PolicyOptions
Table type	Multi-instance table
Row name	Option
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy Name	Index	String: case-insensitive. Length: 1 to 63 characters.	Name can not be same with its siblings. It is Mandatory

Column name	Column description	Column type	Data type and restrictions	Remarks
OptionType	Type of the option in the policy	Index	Enumeration: <ul style="list-style-type: none"> 1—SourceZones. 2—DestZones. 3—SourceIPv4AddressSets. 4—SourceIPv6AddressSets. 5—DestIPv4AddressSets. 6—DestIPv6AddressSets. 7—Users. 8—User Groups. 9—Applications. 10—AppGroups. 11—Service. 	N/A
OptionValue	Value of the special option type in the policy	Index	String: case-insensitive. Length: 1 to 63 characters (for OptionTypes 9 and 10). Length: 1 to 31 characters (for OptionTypes 1 through 6, and OptionType 11). Length: 1 to 480 characters (for OptionTypes 7 and 8).	Values of OptionTypes 7 and 8 are in Json format.

AUDIT/DefaultPolicyAction

This table contains information about the AUDIT's default policy action.

XML structure

```

<AUDIT>
  <DefaultPolicyAction>
    <DefaultAction>
      <Action></Action>
    </DefaultAction>
  </DefaultPolicyAction>
</AUDIT>

```

Table description

Item	Description
Feature name	AUDIT
Table name	DefaultPolicyAction
Table type	Multi-instance table
Row name	DefaultAction
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Packet Action which not match any Audit's policy	N/A	Enumeration: <ul style="list-style-type: none">0—Permit.1—Deny.	N/A

AUDIT/AppPolicyKeywordGroups

This table contains information about the AUDIT's keywordgroup.

XML structure

```
<AUDIT>
  <AppPolicyKeywordGroups>
    <KeywordGroup>
      <KeywordGroupName></KeywordGroupName>
      <Description></Description>
      <RefCnt></RefCnt>
    </KeywordGroup>
  </AppPolicyKeywordGroups>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	AppPolicyKeywordGroups
Table type	Multi-instance table
Row name	KeywordGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KeywordGroup pName	Keyword Group Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description about keyword group	N/A	String: case-insensitive. Length: 1 to 256 characters.	N/A
RefCnt	Refer count about keyword	N/A	Unsigned integer: Value range: 0 to $2^{16} - 1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	group			

AUDIT/Keywords

This table contains information about the keywords of keywordgroup.

XML structure

```
<AUDIT>
  <Keywords>
    <Keyword>
      <KeywordGroupName></KeywordGroupName>
      <Keyword></Keyword>
    </Keyword>
  </Keywords>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	Keywords
Table type	Multi-instance table
Row name	Keyword
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KeywordGroup pName	Keyword Group Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
Keyword	Keyword of matching the application behavior content	Index	String: case-sensitive. Length: 1 to 63 characters.	N/A

AUDIT/PolicyRules

This table contains the information of a Audit Rule in specify policy.

XML structure

```
<AUDIT>
  <PolicyRules>
    <Rule>
      <PolicyName></PolicyName>
      <RuleID></RuleID>
      <AppCategoryID></AppCategoryID>
      <AppID></AppID>
      <BehaviorID></BehaviorID>
      <BhContentID></BhContentID>
      <FilterType></FilterType>
      <MatchType></MatchType>
      <KeywordGroupName></KeywordGroupName>
      <Number></Number>
      <PktAction></PktAction>
      <AuditLogging></AuditLogging>
    </Rule>
  </PolicyRules>
</AUDIT>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyName	Policy Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RuleID	Rule ID	Index	Unsigned integer: Value range: 1 to 64.	N/A
AppCategoryID	App Category ID	N/A	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
AppID	Application layer protocol ID	N/A	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
BehaviorID	Application Behavior ID	N/A	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BhContentID	Application behavior content ID	N/A	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
FilterType	Filter type the application behavior content	N/A	Enumeration: <ul style="list-style-type: none"> 0—Keyword Filter. 1—Number Filter. 	N/A
KeywordGroupName	Keyword Group Name	N/A	String: case-insensitive. Length: 1 to 63 characters.	Contain the keyword for matching application behavior content.
Number	Number	N/A	Unsigned integer: Value range: 0 to $2^{32} - 1$.	Number for matching the application behavior content.
MatchType	Match Type	N/A	Enumeration: <ul style="list-style-type: none"> 0—Equal. 1—Greater. 2—Less. 3—Include. 4—Greater or Equal. 5—Less or Equal. 6—Unequal. 7—Exclude. 	N/A
PktAction	Packet Action	N/A	Enumeration: <ul style="list-style-type: none"> 0—Permit. 1—Deny. 	N/A
AuditLogging	Whether or not send the Audit Logging	N/A	Enumeration: <ul style="list-style-type: none"> 0—Don't Send Audit log. 1—Send Audit log. 	N/A

AUDIT/AppBehaviors

This table contains the behavior of the application or application category.

XML structure

```

<AUDIT>
  <AppBehaviors>
    <AppBehavior>
      <AppCategoryID></AppCategoryID>
      <AppID></AppID>
      <BehaviorIDs>
        <BehaviorID></BehaviorID>
      </BehaviorIDs>
    </AppBehavior>
  </AppBehaviors>
</AUDIT>

```


Table description

Item	Description
Feature name	Audit
Table name	AppBehaviors
Table type	Multi-instance table
Row name	AppBehavior
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppCategoryID	App Category ID	Index	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
AppID	Application layer protocol ID	Index	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
BehaviorIDs	Behavior ID list	Data structure	Members include: <ul style="list-style-type: none">BehaviorID.	N/A
BehaviorID	Behavior ID	N/A	Unsigned integer: Value range: 0 to $2^{32} - 1$.	Contains Multiple BehaviorID in the application or application category.

AUDIT/AppBehaviorContents

This table contains the behavior Content of the application or application category.

XML structure

```
<AUDIT>
  <AppBehaviorContents>
    <BhContent>
      <AppCategoryID></AppCategoryID>
      <AppID></AppID>
      <BehaviorID></BehaviorID>
      <BhContentIDs>
        <BhContentID></BhContentID>
      </BhContentIDs>
    </BhContent>
  </AppBehaviorContents>
</AUDIT>
```


Table description

Item	Description
Feature name	Audit
Table name	AppBehaviorContents
Table type	Multi-instance table
Row name	BhContent
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppCategoryID	App Category ID	Index	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
AppID	Application layer protocol ID	Index	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
BehaviorID	Behavior ID	Index	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
BhContentIDs	Behavior content ID list	Data structure	Members include: <ul style="list-style-type: none">BhContentID.	N/A
BhContentID	Behavior content ID	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	Contains Multiple BhContentID in the application or application category.

AUDIT/AppBhContentsFilterType

This table contains the behavior content filter type of the application or application category.

XML structure

```
<AUDIT>
  <AppBhContentFilterType>
    <BhContentFilterType>
      <AppCategoryID></AppCategoryID>
      <AppID></AppID>
      <BehaviorID></BehaviorID>
      <BhContentID></BhContentID>
      <FilterType></FilterType>
    </BhContentFilterType>
  </AppBhContentFilterType>
</AUDIT>
```


Table description

Item	Description
Feature name	Audit
Table name	AppBhContentFilterType
Table type	Multi-instance table
Row name	BhContentFilterType
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppCategoryID	App Category ID	Index	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
AppID	Application layer protocol ID	Index	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
BehaviorID	Behavior ID	Index	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
BhContentID	Behavior content ID	Index	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
FilterType	Filter type the application behavior content	N/A	Enumeration: <ul style="list-style-type: none">0—Keyword Filter.1—Number Filter.	N/A

AUDIT/AppCategories

This table contains informations about the Audit's application categories.

XML structure

```
<AUDIT>
  <AppCategories>
    <AppCategory>
      <AppCategoryID></AppCategoryID>
      <AppCategoryName></AppCategoryName>
    </AppCategory>
  </AppCategories>
</AUDIT>
```


Table description

Item	Description
Feature name	Audit
Table name	AppCategories
Table type	Multi-instance table
Row name	AppCategory
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppCategoryID	App Category ID	Index	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
AppCategory Name	App Category Name	N/A	String: case-insensitive. Length: 1 to 63 characters.	N/A

AUDIT/AppCategoryMembers

This table contains the Audit's application protocols included in an application category.

XML structure

```
<AUDIT>
  <AppCategoryMembers>
    <AppCategoryMember>
      <AppCategoryID></AppCategoryID>
      <AppID></AppID>
      <AppName></AppName>
    </AppCategoryMember>
  </AppCategoryMembers>
</AUDIT>
```

Table description

Item	Description
Feature name	Audit
Table name	AppCategoryMembers
Table type	Multi-instance table
Row name	AppCategoryMember

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppCategoryID	App Category ID	Index	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
AppID	Application layer protocol ID	Index	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
AppName	Application layer protocol name	N/A	String: case-insensitive. Length: 1 to 63 characters.	N/A

AUDIT/Behaviors

This table contains informations about the Audit's application behaviors

XML structure

```

<AUDIT>
  <Behaviors>
    <Behavior>
      <BehaviorID></BehaviorID>
      <BehaviorName></BehaviorName>
    </Behavior>
  </Behaviors>
</AUDIT>

```

Table description

Item	Description
Feature name	Audit
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
BehaviorID	App Behavior ID	Index	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BehaviorName	App Behavior Name	N/A	String: case-insensitive. Length: 1 to 63 characters.	N/A

AUDIT/BehaviorContents

This table contains informations about the Audit's application behavior contents.

XML structure

```
<AUDIT>
  <BehaviorContents>
    <BehaviorContent>
      <BhContentID></BhContentID>
      <BhContentName></BhContentName>
    </BehaviorContent>
  </BehaviorContents>
</AUDIT>
```

Table description

Item	Description
Feature name	Audit
Table name	BehaviorContents
Table type	Multi-instance table
Row name	BehaviorContent
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BhContentID	App Behavior Content ID	Index	Unsigned integer: Value range: 0 to $2^{32} - 1$.	N/A
BhContentName	App Behavior Content Name	N/A	String, case-insensitive: Length: 1 to 63 characters.	N/A

AUDIT/SignatureAutoUpgrading

This table contains the information of AUDIT signatures auto upgrading.

XML structure

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

Table description

Item	Description
Feature name	AUDIT
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: <ul style="list-style-type: none">true.false.	N/A
StartTime	The time that the system auto upgrading	N/A	Date Time. Format: HH:MM:SS.	N/A
Type	Type of the system auto upgrading	N/A	Enumeration: <ul style="list-style-type: none">0—Week.1—periodic.	N/A
Day	Days	N/A	Unsigned integer: Value range: 0-6.	When Type is 0, the value range is 0 to 6. Otherwise, the value is invalid.

AUDIT/SignatureFileInfos

This table contains the signature file information.

XML structure

```
<AUDIT>
  <SignatureFileInfos>
    <FileInfo>
      <FileStatus></FileStatus>
      <Version></Version>
      <PublishedTime></PublishedTime>
      <Description></Description>
    </FileInfo>
  </SignatureFileInfos>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
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	signature file Status	Index	Enumeration: <ul style="list-style-type: none">1—current.2—last.3—factory.	N/A
Version	Version 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.
Description	DescriptionInformation	N/A	String: case-insensitive Length: 1 to 255 characters.	N/A

AUDIT/UpdatePercentage

This table contains the percentage of update.

XML structure

```
<AUDIT>
  <UpdatePercentage>
    <Percentage></Percentage>
  </UpdatePercentage>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
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:	When the value range is 0 to 100,it means in upgrading, Otherwise, means error.

AUDIT/KeywordGroupReferences

This table contains the information about the relationship between AUDIT's policys and keywordgroups.

XML structure

```
<AUDIT>
  <KeywordGroupReferences>
    <KeywordGroupReference>
      <KeywordGroupName></KeywordGroupName>
      <PolicyName></PolicyName>
      <RuleID></RuleID>
    </KeywordGroupReference>
  </KeywordGroupReferences>
</AUDIT>
```


Table description

Item	Description
Feature name	AUDIT
Table name	KeywordGroupReferences
Table type	Multi-instance table
Row name	KeywordGroupReference
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
KeywordGroupPName	Keyword Group Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
PolicyName	Policy Name	Index	String: case-insensitive. Length: 1 to 63 characters.	N/A
RuleID	Rule ID	Index	Unsigned integer: Value range: 1 to 64.	N/A

AUDIT/AUDITSpecification

This table contains the AUDIT specification information.

XML structure

```
<AUDIT>
  <AUDITSpecification>
    <SupportDomain></SupportDomain>
  </AUDITSpecification>
</AUDIT>
```

Table description

Item	Description
Feature name	AUDIT
Table name	AUDITSpecification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportDomain	Whether the function of AUDIT domain is supported.	N/A	Boolean: <ul style="list-style-type: none">• true.• false.	N/A

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 - AVC/MoveTrafficPolicyRule 1
 - XML structure 1
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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	3
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XML structure	6
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Columns	7

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: Value range: 1 to 4294967295.	Rule number is the match order.
ParentRuleNumber	Parent Rule's rule number	N/A	Unsigned integer: Value range: 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: <ul style="list-style-type: none"> true. false. 	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: Value range: 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: Value range: 1 to 4294967295.	Rule number is the match order.
OptionType	Type of the configuration	Index	Enumeration: <ul style="list-style-type: none"> 1—SourceZones. 2—DestZones. 3—SourceAddressSets. 4—DestAddressSets. 5—Users. 6—UserGroups. 7—Applications. 8—AppGroups. 9—Services. 10—Dscp. 	N/A
OptionVal	Value of the special type configuration	Index	String, case-insensitive. Length: 1 to 63 characters (for OptionTypes 7 and 8). Length: 1 to 31 characters (for OptionTypes 1 through 4, and OptionType 9). Length: 1 to 100 characters (for OptionType 10). Length: 1 to 480 characters (for OptionTypes 5 and 6).	Values of OptionTypes 5 and 6 are in Json format.

AVC/TrafficPolicyProfiles

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>
    </Profile>
  </TrafficPolicyProfiles>
</AVC>

```



```

<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: Value range: 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true. false. 	N/A
TotalMaxKbps	Total max kbps	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
TotalGuaranteedKbps	Total guaranteed kbps	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
TotalGuaranteedKbpsPerIP	Total guaranteed kbps per ip	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
TotalGuaranteedKbpsPerUser	Total guaranteed kbps per user	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
TotalMaxKbpsPerIP	Total max kbps per ip	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
TotalMaxKbpsPerUser	Total max kbps per user	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
DnGuaranteedKbpsPerIP	Down guaranteed kbps per ip	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
UpGuaranteedKbpsPerIP	Up guaranteed kbps per ip	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
DnGuaranteedKbpsPerUser	Down guaranteed kbps per user	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
UpGuaranteedKbpsPerUser	Up guaranteed kbps per user	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
DnGuaranteedKbps	Downstream Guaranteed bandwidth	N/A	Unsigned integer: Value range: 8 to 100,000,000.	Optional
UpGuaranteedKbps	Upstream guaranteed Kbps	N/A	Unsigned integer: Value range: 8 to 100,000,000.	Optional
DnMaxKbps	Downstream Max Kbps	N/A	Unsigned integer: Value range: 8 to 100,000,000.	Optional
UpMaxKbps	Upstream Max Kbps	N/A	Unsigned integer: Value range: 8 to 100,000,000.	Optional
DnMaxKbpsPerIP	Downstream Max Kbps per iP	N/A	Unsigned integer: Value range: 8 to 100,000,000.	Optional
UpMaxKbpsPerIP	Upstream Max Kbps Per IP	N/A	Unsigned integer: Value range: 8 to 100,000,000.	Optional. Per-IP and Per-User are exclusive.
DnMaxKbpsPerUser	Downstream Max Kbps per User	N/A	Unsigned integer: Value range: 8 to 100,000,000.	Optional

Column name	Column description	Column type	Data type and restrictions	Remarks
UpMaxKbpsPerUser	Upstream Max Kbps PerUser	N/A	Unsigned integer: Value range: 8 to 100,000,000.	Optional
Priority	Stream Priority level	N/A	Unsigned integer: Value range: 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: Value range: 0 to 63.	Optional
MaxConnNum	Max up connections	N/A	Unsigned integer: Value range: 1 to 12,000,000.	Optional
MaxConnNumPerIP	Max up connections per IP	N/A	Unsigned integer: Value range: 1 to 12,000,000.	Optional Per-IP and Per-User are exclusive.
MaxConnNumPerUser	Max up connections per User	N/A	Unsigned integer: Value range: 1 to 12,000,000.	Optional
MaxConnRate	Max up connections rate	N/A	Unsigned integer: Value range: 1 to 12,000,000 times per second.	Optional
MaxConnRatePerIP	Max up connections rate per IP	N/A	Unsigned integer: Value range: 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: Value range: 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: Value range: 1 to 4294967295.	Rule number is the match order.
OptionJsonType	Type of the configuration	Index	Enumeration: <ul style="list-style-type: none"> 1—SourceZones. 2—DestZones. 3—SourceAddressSets. 4—DestAddressSets. 5—Users. 6—UserGroups. 7—Applications. 8—AppGroups. 9—Services. 10—Dscp. 	N/A
OptionJsonVal	Json values of the special type configurations	Index	String, case-insensitive. Length: 1 to 65535 characters.	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: Value range: 0 to 200.	N/A
RuleNumber	Rule number	N/A	Unsigned integer: Value range: 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 65535 characters. 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: Value range: 1 to 4294967295.	N/A
FirstSonRuleNum	Return the number of the first child rule	N/A	Unsigned integer: Value range: 1 to 4294967295.	N/A
Enable	Set this value to true to enable the rule	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	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: Value range: 1 to 4294967295.	N/A
ParentRuleNumber	Number of the parent rule	N/A	Unsigned integer: Value range: 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: Value range: 1 to 4294967295.	N/A
Enable	Set this value to true to enable the rule	N/A	Boolean: <ul style="list-style-type: none">true.false.	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: Value range: 1 to 4294967295.	N/A
AvcSeqNum	Sequence numbers for values of a match criterion	Index	Unsigned integer: Value range: 1 to 4294967295.	N/A
AvcOptionType	Match criterion type	N/A	Enumeration: <ul style="list-style-type: none">• 1—SourceZones.• 2—DestZones.• 3—SourceAddressSets.• 4—DestAddressSets.• 5—Users.• 6—UserGroups.• 7—Applications.• 8—AppGroups.• 9—Services.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 10—Dscp. 	
AvcOptionVal	Match criterion value	N/A	String, case-insensitive. Length: 1 to 65535 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>
      <DomainFilter></DomainFilter>
    </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: Value range: 1 to 65535.	N/A
Position	Record the last query position	Index	Unsigned integer: Value range: 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: <ul style="list-style-type: none"> 0—Invalid. 1—disbale. 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 200 characters.	N/A
ApplicationFilter	Application name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
AppGroupFilter	Application	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
er	group name		Length: 1 to 63 characters.	
ServiceFilter	Service name	N/A	String, case-insensitive. Length: 1 to 3 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: Value range: 1 to 4294967295.	N/A
RuleNumber	Child rule number	N/A	Unsigned integer: Value range: 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 65535. 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: Value range: 1 to 4294967295.	N/A
Enable	Set this value to true to enable the rule	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	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: Value range: 1 to 4294967295.	N/A
DomainFilter	Domain value	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

AVC/TrafficQueueParentRule

This table contains information about the parent rule for a child rule.

XML structure

```
<AVC>
  <TrafficQueParentRule>
    <QueRule>
      <RuleNumber></RuleNumber>
      <PRuleNumber></PRuleNumber>
      <RuleName></RuleName>
      <OptionContent></OptionContent>
      <Enable></Enable>
      <TimeRange></TimeRange>
      <ProfileName></ProfileName>
    </QueRule>
  </TrafficQueParentRule>
</AVC>
```

Table description

Item	Description
Feature name	AVC
Table name	TrafficQueParentRule
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: Value range: 1 to 4294967295.	N/A
PRuleNumber	Parent rule number	N/A	Unsigned integer: Value range: 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				object contains a maximum of 64 characters.
Enable	Set this value to true to enable the rule	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	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: Value range: 1 to 4294967295.	Rule number is the match order.
ParentRuleNumber	Parent Rule's rule number	N/A	Unsigned integer: Value range: 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: <ul style="list-style-type: none"> true. false. 	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: Value range: 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>
<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: Value range: 1 to 4294967295.	Rule number is the match order.
OptionType	Type of the configuration	Index	Enumeration: <ul style="list-style-type: none"> 1—SourceZones. 2—DestZones. 3—SourceAddressSets. 4—DestAddressSets. 5—Users. 6—UserGroups. 7—Applications. 8—AppGroups. 9—Services. 10—Dscp. 	N/A
OptionVal	Value of the special type configuration	Index	String, case-insensitive. Length: 1 to 63 characters (for OptionTypes 7 and 8). Length: 1 to 31 characters (for OptionTypes 1 through 4, and OptionType 9). Length: 1 to 100 characters (for OptionType 10). Length: 1 to 480 characters (for OptionTypes 5 and 6).	Values of OptionTypes 5 and 6 are in Json format.

AVC/TrafficPolicyProfiles

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>
    </Profile>
  </TrafficPolicyProfiles>
</AVC>

```



```

<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: Value range: 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
ReferenceMo	Rule shared	N/A	Unsigned integer:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
de	mode		<ul style="list-style-type: none"> 0—per-rule. 1—rule-shared. 	
IpAverageEnable	Ip average enable	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	N/A
TotalMaxKbps	Total max kbps	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
TotalGuaranteedKbps	Total guaranteed kbps	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
TotalGuaranteedKbpsPerIP	Total guaranteed kbps per ip	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
TotalGuaranteedKbpsPerUser	Total guaranteed kbps per user	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
TotalMaxKbpsPerIP	Total max kbps per ip	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
TotalMaxKbpsPerUser	Total max kbps per user	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
DnGuaranteedKbpsPerIP	Down guaranteed kbps per ip	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
UpGuaranteedKbpsPerIP	Up guaranteed kbps per ip	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
DnGuaranteedKbpsPerUser	Down guaranteed kbps per user	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
UpGuaranteedKbpsPerUser	Up guaranteed kbps per user	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
DnGuaranteedKbps	Downstream Guaranteed bandwidth	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
UpGuaranteedKbps	Upstream guaranteed kbps	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
DnMaxKbps	Downstream Max kbps	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
UpMaxKbps	Upstream Max kbps	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
DnMaxKbpsPerIP	Downstream Max kbps per iP	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
UpMaxKbpsPerIP	Upstream Max kbps Per IP	N/A	Unsigned integer: Value range: 8 to 100,000,000.	Per-IP and Per-User are exclusive.
DnMaxKbpsPerUser	Downstream Max kbps per	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	User			
UpMaxKbpsPerUser	Upstream Max kbps PerUser	N/A	Unsigned integer: Value range: 8 to 100,000,000.	N/A
Priority	Stream Priority level	N/A	Unsigned integer: Value range: 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: Value range: 0 to 63.	N/A
MaxConnNum	Max up connections	N/A	Unsigned integer: Value range: 1 to 12,000,000.	N/A
MaxConnNumPerIP	Max up connections per IP	N/A	Unsigned integer: Value range: 1 to 12,000,000.	Per-IP and Per-User are exclusive
MaxConnNumPerUser	Max up connections per User	N/A	Unsigned integer: Value range: 1 to 12,000,000.	N/A
MaxConnRate	Max up connections rate	N/A	Unsigned integer: Value range:1 to 12,000,000 times per second.	N/A
MaxConnRatePerIP	Max up connections rate per IP	N/A	Unsigned integer: Value range: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: Value range:1 to 12,000,000 times per second.	N/A

AVC/AVCSpecification

This table contains the AVC specification information.

XML structure

```

<AVC>
  <AVCSpecification>
    <SupportDomain></SupportDomain>
  </AVCSpecification>
</AVC>

```


Table description

Item	Description
Feature name	AVC
Table name	AVCSpecification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportDomain	Whether the function of AVC domain is supported.	N/A	Boolean: <ul style="list-style-type: none">• true.• false.	N/A

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- Bct 1
 - Bct/ControllerTeams 1
 - XML structure 1
 - Table description 1
 - Columns 1
 - Bct / Controllers 1
 - XML structure 2
 - Table description 2
 - Columns 2

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/ControllerTeams 1
 - XML structure 1
 - Table description 1
 - Columns 1
 - Bct/Controllers 1
 - XML structure 2
 - Table description 2
 - Columns 2

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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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/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.

Contents

BFD	2
BFD/Base	2
BFD/Interfaces	2

BFD

BFD/Base

Message	Explanation
The specified configuration doesn't exist. 指定的配置不存在。	The specified configuration doesn't exist, when getting or deleting it.
Configuration already exists. 配置已经存在。	Configuration already exists, when set new configuration.
Failed to allocate memory. 分配内存失败。	No enough resource, please check your device.
Not support this value, maybe the device has no OAM CPU. 参数不支持, 当前设备可能没有OAM CPU。	The device cannot support these parameters, please use the bigger numbers.
BFD is not configured. BFD尚未配置。	BFD service has not been started.

BFD/Interfaces

Message	Explanation
The specified configuration doesn't exist. 指定的配置不存在。	The specified configuration doesn't exist, when getting or deleting it.
Configuration already exists. 配置已经存在。	Configuration already exists, when set new configuration.
Failed to allocate memory. 分配内存失败。	No enough resource, please check your device.
Not support this value, maybe the device has no OAM CPU. 参数不支持, 当前设备可能没有OAM CPU。	The device cannot support these parameters, please use the bigger numbers.
BFD is not configured. BFD尚未配置。	BFD service has not been started.

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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 2 – Notice BGP protocol smooth start 3 –Notice BGP protocol smooth end	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

BGP/FlushRoutes

This table flush routes to BGP protocol.

XML structure

```
<BGP>
  <FlushRoutes>
    <FlushRoute>
      <Name></Name>
      <VRF></VRF>
      <OperationType></OperationType>
      <RouteType></RouteType>
      <RouteKey></RouteKey>
      <RouteSegment></RouteSegment>
      <RouteAttr></RouteAttr>
    </FlushRoute>
  </FlushRoutes>
</BGP>
```

Responded XML structure

N/A

Table description

Item	Description
Feature name	BGP
Table name	FlushRoutes
Table type	Multi-instance table
Row name	Operation
Restrictions	None

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.
OperationType	Operation type	Index	Enumeration 1 – Add 2 – Delete	The operation type specify the operation that BGP should perform.
RouteType	Type of route	Index	Enumeration: <ul style="list-style-type: none"> 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	Index	Binary. Length: 0 to 128 characters.	An empty string indicates there is no key of the route.
RouteSegment	Route information	Index	Binary. Length: 1 to 4096 characters.	
RouteAttr	Attribute of route		Binary. Length: 1 to 4096 characters.	

Responded columns

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
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. <ul style="list-style-type: none"> 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>
      <BestRouteIgpMetricIgnore></BestRouteIgpMetricIgnore>
    </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: <ul style="list-style-type: none">KeepAliveHoldTime	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
BestRouteIgp MetricIgnore	Ignore IGP metrics during optimal route selection		Enumeration. <ul style="list-style-type: none">0—Disable.(default)1—Enable.	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>
  <EbgpMaxHop></EbgpMaxHop>
  <Ignore></Ignore>
  <Description></Description>
</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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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
EbgpMaxHop	EBGP multihop		Unsigned integer. Value range: 1 to 255	N/A
Ignore	Disable session establishment to the peers		Enumeration. <ul style="list-style-type: none"> 0—Disable.(default) 1—Enable. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Peer Description		String. Length: 1 to 79 characters.	Case Sensitive

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>
      <Description></Description>
    </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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 0—Disable.(default) 1—Enable. 	N/A
Description	Peer Description		String. Length: 1 to 79 characters.	Case Sensitive

BGP/Familys

This table contains address family identifier information of BGP.

XML structure

```

<BGP>
  <Familys>
    <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>
      <PIC></PIC>
      <VpnCrossMultipath></VpnCrossMultipath>
    </Family>
  </Familys>
</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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 0—Disable. • 1—Enable. 	N/A
ReflectBtwClients	Route reflection between clients		Enumeration: <ul style="list-style-type: none"> • 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.
DefaultRtImport	Import default route		Enumeration: <ul style="list-style-type: none"> 0—Disable 1—Enable. 	N/A
DomainDistinguisher	A globally unique identifier for LS domain		String. Length: 9 to 26 characters. The format is AS<1-4294967295>:routerID <X.X.X.X>.	Example: 100:13.14.23.22
PIC	Enable Prefix Independent Convergence		Enumeration: <ul style="list-style-type: none"> 0—Disable 1—Enable. 	N/A
VpnCrossMultipath	Redistribute multiple routes with the same prefix and RD to the VPN routing table		Enumeration: <ul style="list-style-type: none"> 0—Disable 1—Enable. 	N/A

BGP/Networks

This table contains BGP network information.

XML structure

```

<BGP>
  <Networks>
    <Network>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <IpAddress></IpAddress>

```



```

    <Mask></Mask>
    <RoutePolicy></RoutePolicy>
  </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: <ul style="list-style-type: none"> 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.
RoutePolicy	Name of the routing policy		String. Length: 1 to 63 characters.	N/A

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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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>
      <AdvertiseCommunity></AdvertiseCommunity>
    </NeighborGroup>
  </NeighborGroups>
</BGP>

```



```

    <ReOriginated></ReOriginated>
    <AdvEvpnRouteSuppressMac></AdvEvpnRouteSuppressMac>
    <AdvEvpnRouteSuppressPrefix></AdvEvpnRouteSuppressPrefix>
    <DefaultgatewayNoAdv></DefaultgatewayNoAdv>
    <RouteLimit>
      <Number></Number>
      <Percentage></Percentage>
      <AlertOnly></AlertOnly>
      <Discard></Discard>
      <Reconnect></Reconnect>
    </RouteLimit>
    <PreferredValue></PreferredValue>
  </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: <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 0—Disable. • 1—Enable. 	N/A
NextHopInvariable	Send original next hop for routes advertised to the peer		Enumeration. <ul style="list-style-type: none"> • 0—Disable. • 1—Enable. 	Next-hop-local conflict with next-hop-invariable .
NextHopLocal	Specify local address as the next hop of routes advertised		Enumeration. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
AdvertiseCommunity	Send community attribute to the peers		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
ReOriginated	Re-originate EVPN routes received from the peer by modifying the L3 VXLAN ID and RD		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
AdvEvpnRouteSuppressMac	Advertise EVPN routes to the peer excluding MAC/IP advertisement routes		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
AdvEvpnRouteSuppressPrefix	Advertise EVPN routes to the peer excluding IP prefix advertisement routes		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
DefaultgatewayNoAdv	Advertise EVPN routes by deleting the default gateway extended community attribute		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
RouteLimit	Configure the maximum number of routes that can be received from the peers	Data Structure	Include: <ul style="list-style-type: none"> 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		Enumeration. <ul style="list-style-type: none"> 0—Disable. (default) 1—Enable. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	exceeded			
Discard	Discard routes received after the route limit is exceeded		Enumeration. <ul style="list-style-type: none"> 0—Disable. (default) 1—Enable. 	N/A
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A
PreferredValue	Set a preferred value for routes received from the peers		Unsigned integer. Value range: 0 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>
      <AllowAsLoop></AllowAsLoop>
      <ReflectClient></ReflectClient>
      <NexthopInvariable></NexthopInvariable>
      <NexthopLocal></NexthopLocal>
      <RouterMacLocal></RouterMacLocal>
      <AdvertiseCommunity></AdvertiseCommunity>
      <ReOriginated></ReOriginated>
      <AdvEvpnRouteSuppressMac></AdvEvpnRouteSuppressMac>
      <AdvEvpnRouteSuppressPrefix></AdvEvpnRouteSuppressPrefix>
      <DefaultgatewayNoAdv></DefaultgatewayNoAdv>
      <RouteLimit>
        <Number></Number>
        <Percentage></Percentage>
        <AlertOnly></AlertOnly>
      </RouteLimit>
    </Neighbor>
  </Neighbors>
</BGP>

```



```

        <Discard></Discard>
        <Reconnect></Reconnect>
    </RouteLimit>
    <PreferredValue></PreferredValue>
</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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
AdvertiseCommunity	Send community attribute to the peers		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
ReOriginated	Re-originate EVPN routes received from the peer by modifying the L3 VXLAN ID and RD		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
AdvEvpnRouteSuppressMac	Advertise EVPN routes to the peer excluding MAC/IP advertisement routes		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable 	N/A
AdvEvpnRouteSuppressPrefix	Advertise EVPN routes to the peer excluding IP prefix advertisement routes		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable 	N/A
DefaultGatewayNoAdv	Advertise EVPN routes by deleting the default gateway extended community attribute		<ul style="list-style-type: none"> Enumeration. 0—Disable. 1—Enable. 	N/A
RouteLimit	Configure the maximum number of routes that can be received from the peers	Data Structure	Include: <ul style="list-style-type: none"> Number Percentage AlertOnly Discard Reconnect 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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. <ul style="list-style-type: none"> 0—Disable. (default) 1—Enable. 	N/A
Discard	Discard routes received after the route limit is exceeded		Enumeration. <ul style="list-style-type: none"> 0—Disable. (default) 1—Enable. 	N/A
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A
PreferredValue	Set a preferred value for routes received from the peers		Unsigned integer. Value range: 0 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: <ul style="list-style-type: none"> 1—IPv4 Unicast. 2—IPv4 Multicast. 5—IPv6 Unicast 6—IPv6 Multicast. 	N/A
Protocol	Protocol name	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> • 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.
StartupPolicyMed	Startup 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>
      <BestRouteIgpMetricIgnore></BestRouteIgpMetricIgnore>
    </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: <ul style="list-style-type: none">KeepAliveHoldTime	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
BestRouteIgp MetricIgnore	Ignore IGP metrics during optimal route selection		Enumeration. <ul style="list-style-type: none">0—Disable.1—Enable.	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>
    <EbgpMaxHop></EbgpMaxHop>
    <Ignore></Ignore>
    <Description></Description>
  </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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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
EbgpMaxHop	EBGP multihop		Unsigned integer. Value range: 1 to 255	N/A
Ignore	Disable session establishment to the peers		Enumeration. <ul style="list-style-type: none"> • 0—Disable. • 1—Enable. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Peer Description		String. Length: 1 to 79 characters.	Case Sensitive

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>
      <Description></Description>
    </CfgSession>
  </CfgSessions>
</BGP>

```

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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 0—Disable 1—Enable. 	N/A
Description	Peer Description		String. Length: 1 to 79 characters.	Case Sensitive

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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/Familys

This table contains address family identifier information of BGP.

XML structure

```

<BGP>
  <Familys>
    <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>
  <PIC></PIC>
  <VpnCrossMultipath></VpnCrossMultipath>
</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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 0—Disable. • 1—Enable. 	N/A
ReflectBtwClients	Route reflection between clients		Enumeration: <ul style="list-style-type: none"> • 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.
DefaultRtImport	Import default route		Enumeration: <ul style="list-style-type: none"> 0—Disable 1—Enable. 	N/A
DomainDistinguisher	A globally unique identifier for LS domain		String. Length: 9 to 26 characters. The format is AS<1-4294967295>:routerID<X.X.X.X>.	Example: 100:13.14.23.22
PIC	Enable Prefix Independent Convergence		Enumeration: <ul style="list-style-type: none"> 0—Disable 1—Enable. 	N/A
VpnCrossMulticast	Redistribute multiple routes with the same prefix and RD to the VPN routing table		Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A

BGP/Networks

This table contains BGP network information.

XML structure

```

<BGP>
  <Networks>
    <Network>
      <Name></Name>
      <VRF></VRF>
      <Family></Family>
      <IpAddress></IpAddress>
      <Mask></Mask>
      <RoutePolicy></RoutePolicy>
    </Network>
  </Networks>
</BGP>

```



```

    </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: <ul style="list-style-type: none"> 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.
RoutePolicy	Name of the routing policy		String. Length: 1 to 63 characters.	N/A

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

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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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>
      <AdvertiseCommunity></AdvertiseCommunity>
    </NeighborGroup>
  </NeighborGroups>
</BGP>

```



```

    <ReOriginated></ReOriginated>
    <AdvEvpnRouteSuppressMac></AdvEvpnRouteSuppressMac>
    <AdvEvpnRouteSuppressPrefix></AdvEvpnRouteSuppressPrefix>
    <DefaultgatewayNoAdv></DefaultgatewayNoAdv>
    <RouteLimit>
      <Number></Number>
      <Percentage></Percentage>
      <AlertOnly></AlertOnly>
      <Discard></Discard>
      <Reconnect></Reconnect>
    </RouteLimit>
    <PreferredValue></PreferredValue>
  </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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
NextHopInvariable	Send original next hop for routes advertised to the peer		Enumeration. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	Next-hop-local conflict with next-hop-invariable .
RouterMacLocal	Specify local MAC as the		Enumeration. <ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 1—Enable. 	
AdvertiseCommunity	Send community attribute to the peers		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
ReOriginated	Re-originate EVPN routes received from the peer by modifying the L3 VXLAN ID and RD		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
AdvEvpnRouteSuppressMac	Advertise EVPN routes to the peer excluding MAC/IP advertisement routes		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
AdvEvpnRouteSuppressPrefix	Advertise EVPN routes to the peer excluding IP prefix advertisement routes		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
DefaultgatewayNoAdv	Advertise EVPN routes by deleting the default gateway extended community attribute		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
RouteLimit	Configure the maximum number of routes that can be received from the peers	Data Structure	Include: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
Discard	Discard routes received after the		Enumeration. <ul style="list-style-type: none"> 0—Disable. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	route limit is exceeded		<ul style="list-style-type: none"> 1—Enable. 	
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A
PreferredValue	Set a preferred value for routes received from the peers		Unsigned integer. Value range: 0 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>
      <AllowAsLoop></AllowAsLoop>
      <ReflectClient></ReflectClient>
      <NexthopInvariable></NexthopInvariable>
      <NexthopLocal></NexthopLocal>
      <RouterMacLocal></RouterMacLocal>
      <AdvertiseCommunity></AdvertiseCommunity>
      <ReOriginated></ReOriginated>
      <AdvEvpnRouteSuppressMac></AdvEvpnRouteSuppressMac>
      <AdvEvpnRouteSuppressPrefix></AdvEvpnRouteSuppressPrefix>
      <DefaultgatewayNoAdv></DefaultgatewayNoAdv>
      <RouteLimit>
        <Number></Number>
        <Percentage></Percentage>
        <AlertOnly></AlertOnly>
        <Discard></Discard>
        <Reconnect></Reconnect>
      </RouteLimit>
      <PreferredValue></PreferredValue>
    </Neighbor>
  </Neighbors>
</BGP>

```



```
</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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
NextHopLocal	Specify local address as the next hop of routes advertised to the peers		Enumeration. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
AdvertiseCommunity	Send community attribute to the peers		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
ReOriginated	Re-originate EVPN routes received from the peer by modifying the L3 VXLAN ID and RD		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
AdvEvpnRouteSuppressMac	Advertise EVPN routes to the peer excluding MAC/IP advertisement routes		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable 	N/A
AdvEvpnRouteSuppressPrefix	Advertise EVPN routes to the peer excluding IP prefix advertisement routes		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable 	N/A
DefaultgatewayNoAdv	Advertise EVPN routes by deleting the default gateway extended community attribute		<ul style="list-style-type: none"> Enumeration. 0—Disable. 1—Enable. 	N/A
RouteLimit	Configure the maximum number of routes that can be received from the peers	Data Structure	Include: <ul style="list-style-type: none"> Number Percentage AlertOnly Discard Reconnect 	N/A
Number	Number of		Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	prefixes		Value range: 1 to 4294967295	
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. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
Discard	Discard routes received after the route limit is exceeded		Enumeration. <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
Reconnect	Reconnect time in seconds		Unsigned integer. Value range: 1 to 65535	N/A
PreferredValue	Set a preferred value for routes received from the peers		Unsigned integer. Value range: 0 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: <ul style="list-style-type: none"> 1—IPv4 Unicast. 2—IPv4 Multicast. 5—IPv6 Unicast 6—IPv6 Multicast. 	N/A
Protocol	Protocol name	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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

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BGP

BGP/Instances

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists, when set new configuration.
BGP is disabling NSR. BGP进程正在处理NSR删除，请稍后再进行配置。	The NSR is being deleted, when replacing or deleting it.
Can't enable NSR because the address family which not support NSR has been configured. 地址族配置与NSR配置冲突，不能配置NSR。	Invalid configuration, please modify configuration under the guidance.
Centralized device doesn't support NSR. 集中式设备，无法支持NSR。	Invalid configuration, please modify configuration under the guidance.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.

BGP/VRFs

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists, when set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VRF instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VRF instance is being deleted. 该VPN正在删除中。	The specified VRF is being deleted, when replacing or deleting it.
The VRF instance RD is not configured. 该VPN没有配置RD。	Invalid configuration, please modify configuration under the guidance.
The public VRF can't be deleted. 公网VPN实例不允许删除。	Invalid configuration, please modify configuration under the guidance.
Invalid hold or keepalive time value. Keepalive定时器或Hold定时器取值错误。	Invalid configuration, please modify configuration under the guidance.
Invalid router ID. 无效的RouterID。	Invalid configuration, please modify configuration under the guidance.

BGP/CfgSessionGroups

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists, when set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VRF instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VRF instance is being deleted. 该VPN正在删除中。	The specified VRF is being deleted, when replacing or deleting it.
The VRF instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
The interface is not belong to the VRF instance. 指定接口不属于该VPN。	Invalid configuration, please modify configuration under the guidance.
When the operation is create, merge or replace, the group type must not be null. Create、merge、replace操作时，会话组类型不能为空。	Invalid configuration, please modify configuration under the guidance.
When the operation is delete or remove, the group type must be null. Delete、remove操作时，会话组类型必须为空。	Invalid configuration, please modify configuration under the guidance.
Not necessary to configure AS number for an IBGP group. 不能配置或者删除IBGP组的AS号。	Invalid configuration, please modify configuration under the guidance.
Can't change or delete AS number for a peer group that contains peers. 会话组中存在会话，不能变更或者删除会话组AS号。	Invalid configuration, please modify configuration under the guidance.
Invalid peer group name. 组名称不合法。	Invalid configuration, please modify configuration under the guidance.
The specified peer group doesn't exist. 指定的对等体组不存在。	Invalid configuration, please modify configuration under the guidance.
The interface is not belong to the VRF instance. 指定接口不属于该VPN。	Invalid configuration, please modify configuration under the guidance.
PasswordType and Password must both be configured. PasswordType和Password必须同时配置。	Invalid configuration, please modify configuration under the guidance.
Invalid ciphertext password. 密文密码不合法。	Invalid configuration, please modify configuration under the guidance.
Invalid simpletext password length. 明文密码长度不合法。	Invalid configuration, please modify configuration under the guidance.

Invalid ciphertext password length. 密文密码长度不合法。	Invalid configuration, please modify configuration under the guidance.
BFD not supported. 不支持BFD	BFD service has not been started.

BGP/CfgSessions

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists, when set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VRF instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VRF instance is being deleted. 该VPN正在删除中。	The specified VRF is being deleted, when replacing or deleting it.
The VRF instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
The interface is not belong to the VRF instance. 指定接口不属于该VPN。	Invalid configuration, please modify configuration under the guidance.
The session already exists. The AS number can't be changed. 会话已存在，不允许修改会话的AS号。	Configuration already exists, when set new configuration.
Invalid IP address. 无效的IP地址。	Invalid configuration, please modify configuration under the guidance.
Interface name is invalid, or interface failed RBAC check. 接口名称非法或者无法通过RBAC检查。	Invalid configuration, please modify configuration under the guidance.
When the operation is create, merge, or replace, the AS number must not be null. Create、merge、replace操作时，AS号不能为空。	Invalid configuration, please modify configuration under the guidance.
When the operation is delete or remove, the AS number must be null. Delete、remove操作时，AS号必须为空。	Invalid configuration, please modify configuration under the guidance.
The specified peer group doesn't exist. 指定的对等体组不存在。	Invalid configuration, please modify configuration under the guidance.
The interface is not belong to the VRF instance. 指定接口不属于该VPN。	Invalid configuration, please modify configuration under the guidance.
PasswordType and Password must both be configured. PasswordType和Password必须同时配置。	Invalid configuration, please modify configuration under the guidance.

Invalid ciphertext password. 密文密码不合法。	Invalid configuration, please modify configuration under the guidance.
Invalid simpletext password length. 明文密码长度不合法。	Invalid configuration, please modify configuration under the guidance.
Invalid ciphertext password length. 密文密码长度不合法。	Invalid configuration, please modify configuration under the guidance.
BFD not supported. 不支持BFD	BFD service has not been started.

BGP/Famils

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists, when set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VRF instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VRF instance is being deleted. 该VPN正在删除中。	The specified VRF is being deleted, when replacing or deleting it.
The VRF instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
This address family doesn't support NSR. Please disable NSR first. 当前地址族不支持NSR，请先将NSR配置删除。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't exist. 指定的地址族不存在。	Invalid configuration, please modify configuration under the guidance.
Can't configure both EIBGP load balancing and EBGp/IBGP load balancing at the same time. EIBGP等价不能和EBGP等价、IBGP等价同时配置。	Invalid configuration, please modify configuration under the guidance.
Unsupported address family. 不支持该地址族。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the preference command. 指定地址族不支持preference命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the balance command. 指定地址族不支持balance命令。	Invalid configuration, please modify configuration under the guidance.
Number of BGP routes exceeded the maximum for load balancing. 配置的等价条数超过产品所能配置的最大值。	Invalid configuration, please modify configuration under the guidance.

<p>You must set all of the EBGp preference, IBGP preference, and LOCAL preference, or set none of them.</p> <p>EBGP preference、IBGP preference、LOCAL preference必须同时进行配置或取消配置。</p>	Invalid configuration, please modify configuration under the guidance.
<p>The specified address family doesn't support policy vpn-target command.</p> <p>指定地址族不支持policy vpn-target命令。</p>	Invalid configuration, please modify configuration under the guidance.
<p>The specified address family doesn't support rr-filter command.</p> <p>指定地址族不支持rr-filter命令。</p>	Invalid configuration, please modify configuration under the guidance.
<p>Cluster ID must be an IPv4 address or a number between 1 to 0xFFFFFFFF(notice that it must not be 0.0.0.0).</p> <p>Cluster ID必须是一个合法的IPv4地址或者32位无符号正整数(注意不能是0.0.0.0或者数字0)。</p>	Invalid configuration, please modify configuration under the guidance.
<p>The specified address family doesn't support default-route imported command.</p> <p>指定的地址族不支持default-route imported命令。</p>	Invalid configuration, please modify configuration under the guidance.
<p>The specified address family doesn't support the pic command.</p> <p>指定的地址族不支持pic命令。</p>	Invalid configuration, please modify configuration under the guidance.

BGP/Networks

Message	Explanation
<p>The BGP process already exists but the AS number doesn't match.</p> <p>BGP进程已存在，AS号不匹配。</p>	Configuration already exists, when set new configuration.
<p>AS number is required for BGP instance.</p> <p>必须为BGP实例指定AS号。</p>	Invalid configuration, please modify configuration under the guidance.
<p>The VRF instance doesn't exist.</p> <p>该VPN不存在。</p>	Invalid configuration, please modify configuration under the guidance.
<p>The VRF instance is being deleted.</p> <p>该VPN正在删除中。</p>	The specified VRF is being deleted, when replacing or deleting it.
<p>The VRF instance is not configured.</p> <p>该VPN没有配置。</p>	Invalid configuration, please modify configuration under the guidance.
<p>Invalid IP address.</p> <p>无效的IP地址。</p>	Invalid configuration, please modify configuration under the guidance.
<p>IPv4 address mask length can't be greater than 32.</p> <p>IPv4地址的掩码长度不能超过32。</p>	Invalid configuration, please modify configuration under the guidance.
<p>The specified address family doesn't support the network command.</p> <p>指定地址族不支持network命令。</p>	Invalid configuration, please modify configuration under the guidance.

BGP/Aggregates

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists, when set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VRF instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VRF instance is being deleted. 该VPN正在删除中。	The specified VRF is being deleted, when replacing or deleting it.
The VRF instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
Invalid IP address. 无效的IP地址。	Invalid configuration, please modify configuration under the guidance.
IPv4 address mask length can't be greater than 32. IPv4地址的掩码长度不能超过32。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the aggregate command. 指定地址族不支持aggregate命令。	Invalid configuration, please modify configuration under the guidance.

BGP/NeighborGroups

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists, when set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VRF instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VRF instance is being deleted. 该VPN正在删除中。	The specified VRF is being deleted, when replacing or deleting it.
The VRF instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the route-policy import command. 指定地址族不支持route-policy import命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the route-policy export command. 指定地址族不支持route-policy export命令。	Invalid configuration, please modify configuration under the guidance.

Reflect not for EBGp peer groups. EBGP对等体组不能配置反射	Invalid configuration, please modify configuration under the guidance.
Next-hop-local conflict with next-hop-invariable. Next-hop-local命令和next-hop-invariable命令存在冲突，不能同时配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the next-hop-invariable command. 指定地址族不支持next-hop-invariable命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflect between-clients command. 指定地址族不支持reflect between-clients命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflector cluster-id command. 指定地址族不支持reflector cluster-id命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflect-client command. 指定地址族不支持reflect-client命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the next-hop-local command. 指定地址族不支持next-hop-local命令	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the router-mac-local command. 指定地址族不支持router-mac-local命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the advertise-community command. 指定地址族不支持advertise-community命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the allow-as-loop command. 指定地址族不支持allow-as-loop命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the route-limit command. 指定地址族不支持route-limit命令。	Invalid configuration, please modify configuration under the guidance.
Invalid prefix count. 前缀数目配置错误。	Invalid configuration, please modify configuration under the guidance.
Alert-only, Discard, Reconnect can't be configured at the same time. Alert-only、Discard、Reconnect不能同时配置。	Invalid configuration, please modify configuration under the guidance.
Invalid peer group name. 组名称不合法。	Invalid configuration, please modify configuration under the guidance.
The specified peer group doesn't exist. 指定的对等体组不存在。	Invalid configuration, please modify configuration under the guidance.

BGP/Neighbors

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists, when set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VRF instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VRF instance is being deleted. 该VPN正在删除中。	The specified VRF is being deleted, when replacing or deleting it.
The VRF instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
The specified neighbor can't be enabled in the current address family. 指定的会话在该实例下不能使能。	Invalid configuration, please modify configuration under the guidance.
The specified peer doesn't exist. 指定的对等体会话不存在。	Invalid configuration, please modify configuration under the guidance.
Reflect not for EBGp peers. EBGP邻居不能配置反射	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the route-policy import command. 指定地址族不支持route-policy import命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the route-policy export command. 指定地址族不支持route-policy export命令。	Invalid configuration, please modify configuration under the guidance.
Next-hop-local conflict with next-hop-invariable. Next-hop-local命令和next-hop-invariable命令存在冲突，不能同时配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the next-hop-invariable command. 指定地址族不支持next-hop-invariable命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflect between-clients command. 指定地址族不支持reflect between-clients命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflector cluster-id command. 指定地址族不支持reflector cluster-id命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the reflect-client command. 指定地址族不支持reflect-client命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the	Invalid configuration, please modify configuration under the guidance.

next-hop-local command. 指定地址族不支持next-hop-local命令。	
The specified address family doesn't support the router-mac-local command. 指定地址族不支持router-mac-local命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the advertise-community command. 指定地址族不支持advertise-community命令。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the allow-as-loop command. 指定地址族不支持allow-as-loop命令。	Invalid configuration, please modify configuration under the guidance.
Invalid IP address. 无效的IP地址。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the route-limit command. 指定地址族不支持route-limit命令。	Invalid configuration, please modify configuration under the guidance.
Invalid prefix count. 前缀数目配置错误。	Invalid configuration, please modify configuration under the guidance.
Alert-only, Discard, Reconnect can't be configured at the same time. Alert-only、Discard、Reconnect不能同时配置。	Invalid configuration, please modify configuration under the guidance.

BGP/Redistributes

Message	Explanation
The BGP process already exists but the AS number doesn't match. BGP进程已存在，AS号不匹配。	Configuration already exists, when set new configuration.
AS number is required for BGP instance. 必须为BGP实例指定AS号。	Invalid configuration, please modify configuration under the guidance.
The VRF instance doesn't exist. 该VPN不存在。	Invalid configuration, please modify configuration under the guidance.
The VRF instance is being deleted. 该VPN正在删除中。	The specified VRF is being deleted, when replacing or deleting it.
The VRF instance is not configured. 该VPN没有配置。	Invalid configuration, please modify configuration under the guidance.
The specified address family doesn't support the import-route command. 指定地址族不支持import-route命令。	Invalid configuration, please modify configuration under the guidance.
When the protocol is Direct or Static, the protocol name must be null. 引入协议为直连或者静态时，协议名称必须为空。	Invalid configuration, please modify configuration under the guidance.
When the Protocol is RIP, OSPF, or ISIS, the protocol name must be ""all-processes"" or a	Invalid configuration, please modify configuration under the guidance.

<p>number in the range of 1 to 65535.</p> <p>引入协议为RIP、ISIS或者OSPF时，协议名称必须为all-processes或者1到65535的数字。</p>	
<p>When the Protocol is DIRECT or STATIC, allow-direct can not be configured.</p> <p>引入协议为DIRECT或者STATIC时，不能配置allow-direct。</p>	<p>Invalid configuration, please modify configuration under the guidance.</p>

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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>ACcCJQAAAAEAAAPoAAAAAAAAAAAAAAAAAAwAAwpo3rjIEQCAG+</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: <ul style="list-style-type: none"> • 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.	

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- Bridge.....1
 - Bridge/Base1
 - XML structure1
 - Table description.....1
 - Columns.....1
 - Bridge/Instances1
 - XML structure2
 - 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> • true—Enabled. • false—Disabled. 	N/A

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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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true. false.

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BufferMonitor/BoardQueConfigurations	3
XML structure	3
Table description	3
Columns	4
BufferMonitor/PortQueConfigurations	4
XML structure	4
Table description	4
Columns	5

BufferMonitor

BufferMonitor/GlobalConfigurations

This table is used to configure the global configurations for buffer monitor.

XML structure

```
<BufferMonitor>
  <GlobalConfigurations>
    <DropAlarmEnable></DropAlarmEnable>
    <DropAlarmInterval></DropAlarmInterval>
    <IngressAlarmEnable></IngressAlarmEnable>
    <IngressAlarmInterval></IngressAlarmInterval>
    <EgressAlarmEnable></EgressAlarmEnable>
    <EgressAlarmInterval></EgressAlarmInterval>
    <HeadroomAlarmEnable></HeadroomAlarmEnable>
    <HeadroomAlarmInterval></HeadroomAlarmInterval>
  </GlobalConfigurations>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	GlobalConfigurations
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
DropAlarmEnable	Drop alarm enable status	N/A	Enumeration: 1 ENABLE. 2 DISABLE.
DropAlarmInterval	Drop alarm suppression interval.	N/A	Unsigned integer. Value range: 0 to 60.

Column name	Column description	Column type	Data type and restrictions
IngressAlarmEnable	Ingress threshold alarm enable status	N/A	Enumeration: 1 ENABLE. 2 DISABLE.
IngressAlarmInterval	Ingress threshold alarm suppression interval.	N/A	Unsigned integer. Value range: 0 to 60.
EgressAlarmEnable	Egress threshold alarm enable status	N/A	Enumeration: 1 ENABLE. 2 DISABLE.
EgressAlarmInterval	Egress threshold alarm suppression interval.	N/A	Unsigned integer. Value range: 0 to 60.
HeadroomAlarmEnable	Headroom threshold alarm enable status	N/A	Enumeration: 1 ENABLE. 2 DISABLE.
HeadroomAlarmInterval	Headroom threshold alarm suppression interval.	N/A	Unsigned integer. Value range: 0 to 60.

BufferMonitor/BoardConfigurations

This table is used to configure the node's configuration for buffer monitor.

XML structure

```

<BufferMonitor>
  <BoardConfigurations>
    <BoardConfiguration>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <HeadroomThreshold></HeadroomThreshold>
    </BoardConfiguration>
  </BoardConfigurations>
</BufferMonitor>

```

Table description

Item	Description
Feature name	BufferMonitor
Table name	BoardConfigurations
Table type	Multi-instance table
Row name	BoardConfiguration
Restrictions	None

Item	Description
Support for row creation and deletion	No

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.
HeadroomThreshold	Headroom threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.

BufferMonitor/BoardQueueConfigurations

This table is used to configurate the queue of node for buffer monitor.

XML structure

```

<BufferMonitor>
  <BoardQueueConfigurations>
    <BoardQueueConfiguration>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <QueueIndex></QueueIndex>
      <IngressThreshold></IngressThreshold>
      <EgressThreshold></EgressThreshold>
    </BoardQueueConfiguration>
  </BoardQueueConfigurations>
</BufferMonitor>

```

Table description

Item	Description
Feature name	BufferMonitor
Table name	BoardQueueConfigurations
Table type	Multi-instance table
Row name	BoardQueueConfiguration
Restrictions	None

Item	Description
Support for row creation and deletion	No

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.
QueueIndex	Queue index	Index	Unsigned integer. Value range: 0 to 7.
IngressThreshold	Ingress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.
EgressThreshold	Egress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.

BufferMonitor/PortQueueConfigurations

This table is used to configure the queue of interface for buffer monitor..

XML structure

```

<BufferMonitor>
  <PortQueueConfigurations>
    <PortQueueConfiguration>
      <IfIndex></IfIndex>
      <QueueIndex></QueueIndex>
      <IngressThreshold></IngressThreshold>
      <EgressThreshold></EgressThreshold>
      <HeadroomThreshold></HeadroomThreshold>
    </PortQueueConfiguration>
  </PortQueueConfigurations>
</BufferMonitor>

```

Table description

Item	Description
Feature name	BufferMonitor
Table name	PortQueueConfigurations

Item	Description
Table type	Multi-instance table
Row name	PortQueConfiguration
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.
QueIndex	Queue index	Index	Unsigned integer. Value range: 0 to 7.
IngressThreshold	Ingress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.
EgressThreshold	Egress threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.
HeadroomThreshold	Headroom threshold in ratio.	N/A	Unsigned integer. Value range: 1 to 100.

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XML structure	2
Table description	2
Columns	3

BufferMonitor

BufferMonitor/EgressDrops

This table is used to get the egress drops data for buffer monitor.

XML structure

```
<BufferMonitor>
  <EgressDrops>
    <EgressDrop>
      <IfIndex/>
      <IfName/>
      <UnicastDroppedPkts/>
      <UnicastDroppedBytes/>
      <MulticastDroppedPkts/>
      <MulticastDroppedBytes/>
      <DroppedPkts/>
      <DroppedBytes/>
    </EgressDrop>
  </EgressDrops>
</BufferMonitor>
```

Table description

Item	Description
Feature name	BufferMonitor
Table name	EgressDrops
Table type	Multi-instance table
Row name	EgressDrop
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
IfName	Full name of an interface	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2
UnicastDroppedPk	Number of packets	N/A	Unsigned integer64

Column name	Column description	Column type	Data type and restrictions
ts	lost in outgoing unicast queue		
UnicastDroppedBytes	Number of bytes lost in outgoing unicast queue	N/A	Unsigned integer64
MulticastDroppedPkts	Number of packets lost in outgoing Multicast queue	N/A	Unsigned integer64
MulticastDroppedBytes	Number of bytes lost in outgoing Multicast queue	N/A	Unsigned integer64
DroppedPkts	Number of packets lost in specific interface	N/A	Unsigned integer64
DroppedBytes	Number of bytes lost in specific interface	N/A	Unsigned integer64

BufferMonitor/BoardEgressDrops

This table is used to get the slot egress drops data for buffer monitor.

XML structure

```

<BufferMonitor>
  <BoardEgressDrops>
    <BoardEgressDrop>
      <Chassis/>
      <Slot/>
      <Cpu/>
      <DroppedPkts/>
      <DroppedBytes/>
    </BoardEgressDrop>
  </BoardEgressDrops>
</BufferMonitor>

```

Table description

Item	Description
Feature name	BufferMonitor
Table name	BoardEgressDrops
Table type	Multi-instance table
Row name	BoardEgressDrop
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	Chassis number	Index	Unsigned integer.
Slot	Slot number	Index	Unsigned integer.
Cpu	Cpu number	Index	Unsigned integer.
DroppedPkts	Number of packets lost in Egress direction at whole slot	N/A	Unsigned integer64
DroppedBytes	Number of bytes lost in Egress direction at whole slot	N/A	Unsigned integer64

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XML structure for event subscription	3
XML structure for event report	4
PortQueDropEvent event.....	4
XML structure for event subscription	4
XML structure for event report	5

BufferMonitor event stream

BoardOverrunEvent event

This event is used to report counters of board overrun threshold.

XML structure for event subscription

```
<BoardOverrunEvent>
  <BoardOverrun>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <AlarmType></AlarmType>
  </BoardOverrun>
</BoardOverrunEvent>
```

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>BufferMonitor</stream>
    <filter>
      <BoardOverrunEvent xmlns="http://www.h3c.com/netconf/event:1.0/BufferMonitor:1.0">
        <BoardOverrun>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
          <AlarmType>1</AlarmType>
        </BoardOverrun>
      </BoardOverrunEvent>
    </filter>
  </create-subscription>
</rpc>]]>]]>
```

Table description

Item	Description
Event stream name	BufferMonitor
Event name	BoardOverrunEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/BufferMonitor:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.	No	N/A
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
AlarmType	Alarm type.	Unsigned integer.	1—for Headroom overrun	Alarm type.

XML structure for event report

```
<BoardOverrunEvent>
  <BoardOverrun>
    <Chassis/>
    <Slot/>
    <CPUID/>
    <AlarmType/>
    <CurrentValue/>
    <CurrentRatio/>
    <Threshold/>
  </BoardOverrun>
</BoardOverrunEvent>
```

Table description

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
AlarmType	Alarm type.	Unsigned integer.	1—for Headroom overrun
CurrentValue	Current value.	Unsigned integer. Value range: 0 to 65535.	
CurrentRatio	Current usage ratio.	Unsigned integer. Value range: 1 to 100.	

Column name	Column description	Data type and restrictions	Remarks
Threshold	Threshold usage ratio.	Unsigned integer. Value range: 1 to 100.	

PortQueOverrunEvent event

This event is used to report counters of interface's queue overrun threshold.

XML structure for event subscription

```
<PortQueOverrunEvent>
  <PortQueOverrun>
    <IfIndex></IfIndex>
    <QueIndex></QueIndex>
    <AlarmType></AlarmType>
  </PortQueOverrun>
</PortQueOverrunEvent>
```

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>BufferMonitor</stream>
    <filter>
      <PortQueOverrunEvent xmlns="http://www.h3c.com/netconf/event:1.0/BufferMonitor:1.0">
        <PortQueOverrun>
          <IfIndex>20</IfIndex>
          <QueIndex>1</QueIndex>
          <AlarmType>2</AlarmType>
        </PortQueOverrun>
      </PortQueOverrunEvent>
    </filter>
  </create-subscription>
</rpc>]]>]]>
```

Table description

Item	Description
Event stream name	BufferMonitor
Event name	PortQueOverrunEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/BufferMonitor:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
IfIndex	Interface index	Unsigned integer.	No	N/A
QueIndex	Queue index	Unsigned integer.	No	N/A
AlarmType	Alarm type.	Unsigned integer.	No	1— for ingress overrun 2— for egress overrun 3— for headroom overrun

XML structure for event report

```
<QueueOverrunEvent>  
  <IfIndex/>  
  <QueIndex/>  
  <AlarmType/>  
  <CurrentValue/>  
  <CurrentRatio/>  
  <Threshold/>  
</QueueOverrunEvent>
```

Table description

Column name	Column description	Data type and restrictions	Remarks
IfIndex	Interface index	Unsigned integer.	N/A
QueIndex	Queue index	Unsigned integer.	N/A
AlarmType	Alarm type.	Unsigned integer.	1— for ingress overrun 2— for egress overrun 3— for headroom overrun
CurrentValue	Current value.	Unsigned integer.	
CurrentRatio	Current usage ratio.	Unsigned integer. Value range: 1 to 100.	
Threshold	Threshold usage ratio.	Unsigned integer. Value range: 1 to 100.	

PortQueDropEvent event

This event is used to report counters of interface's queue drop threshold.

XML structure for event subscription

```
<PortQueDropEvent>
```



```

<PortQueueDrop>
  <IfIndex></IfIndex>
  <QueueIndex></QueueIndex>
  <AlarmType></AlarmType>
</PortQueueDrop>
</PortQueueDropEvent>

```

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>BufferMonitor</stream>
    <filter>
      <PortQueueDropEvent xmlns="http://www.h3c.com/netconf/event:1.0/BufferMonitor:1.0">
        <PortQueueDrop>
          <IfIndex>20</IfIndex>
          <QueueIndex>1</QueueIndex>
          <AlarmType>2</AlarmType>
        </PortQueueDrop>
      </PortQueueDropEvent>
    </filter>
  </create-subscription>
</rpc>]]>]]>

```

Table description

Item	Description
Event stream name	BufferMonitor
Event name	PortQueueDropEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/BufferMonitor:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
IfIndex	Interface index	Unsigned integer.	No	N/A
QueueIndex	Queue index	Unsigned integer.	No	N/A
AlarmType	Alarm type.	Unsigned integer.	No	1— for ingress drops 2— for egress drops

XML structure for event report

```

<QueueDropEvent>
  <IfIndex/>
  <QueueIndex/>
  <AlarmType/>

```



```

    <DropCounters/>
  </QueueDropEvent>

```

Table description

Column name	Column description	Data type and restrictions	Remarks
IfIndex	Interface index	Unsigned integer.	N/A
QueIndex	Queue indexs	Unsigned integer.	N/A
AlarmType	Alarm type.	Unsigned integer.	1— for ingress drops 2— for egress drops
DropCounters	Current value.	Unsigned integer.	

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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>
        <AclNumber></AclNumber>
      </AuthorizationData>
    </AuthorizationInfo>
  </AuthorizationInfos>
</BYOD>

```



```

    <CallbackNumber></CallbackNumber>
    <SessTimeout></SessTimeout>
    <IdleTimeout></IdleTimeout>
    <PrimaryDNSServer></PrimaryDNSServer>
    <PrimaryDNSIPv6Server></PrimaryDNSIPv6Server>
    <SecondaryDNSServer></SecondaryDNSServer>
    <SecondaryDNSIPv6Server></SecondaryDNSIPv6Server>
    <URL></URL>
    <UserProfile></UserProfile>
    <VLANID></VLANID>
    <VRF></VRF>
    <IpPool></IpPool>
    <IPv6Pool></IPv6Pool>
    <SSLVPNPolicy></SSLVPNPolicy>
  </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: <ul style="list-style-type: none"> AclNumber. CallbackNumber. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> • FTPHomeDir. • IdleTimeout. • PrimaryDNSServer. • SecondaryDNSServer. • URL. • UserProfile. • VLANID. • VRF. • IpPool. • Ipv6Pool. 	
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
SessTimeout	Session timeout.	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.	N/A
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
Ipv6Pool	Available IPv6 pool name.	N/A	String. Length: 1 to 63 characters.	N/A
SSLVPNPolic	Name of the SSL	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
y	VPN policy assigned to the local user.		Length: 1 to 31 characters.	
AuthorizationIpv6PrefixInfo	Available IPv6 prefix.	Data structure	Members include: <ul style="list-style-type: none"> 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.

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XML structure	4
Table description	4
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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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• True.• False.	N/A

BYOD/AuthorizationInfos

BYOD authorization information table.

XML structure

```
<BYOD>
  <AuthorizationInfos>
    <AuthorizationInfo>
      <UserGroupName></UserGroupName>
      <DeviceType></DeviceType>
      <AuthorizationData>
        <AclNumber></AclNumber>
        <CallbackNumber></CallbackNumber>
        <SessTimeout></SessTimeout>
        <IdleTimeout></IdleTimeout>
        <PrimaryDNSServer></PrimaryDNSServer>
        <PrimaryDNSIPv6Server></PrimaryDNSIPv6Server>
        <SecondaryDNSServer></SecondaryDNSServer>
        <SecondaryDNSIPv6Server></SecondaryDNSIPv6Server>
        <URL></URL>
        <UserProfile></UserProfile>
        <VLANID></VLANID>
        <VRF></VRF>
        <IpPool></IpPool>
        <Ipv6Pool></Ipv6Pool>
        <SSLVPNPolicy></SSLVPNPolicy>
      </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: <ul style="list-style-type: none"> • 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
SessTimeout	Session timeout.	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.	N/A
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
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

Column name	Column description	Column type	Data type and restrictions	Remarks
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
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	Available IPv6 prefix.	Data structure	Members include: <ul style="list-style-type: none"> 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

- BYOD1
 - BYOD/DhcpOption55Rules1
 - BYOD/UserAgentRules1
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BYOD

BYOD/DhcpOption55Rules

Message	Explanation
Operation not supported.	Predefined rules prohibit modification, please check your rules.

BYOD/UserAgentRules

Message	Explanation
Operation not supported.	Predefined rules prohibit modification, please check your rules.

BYOD/MacRules

Message	Explanation
Operation not supported.	Predefined rules prohibit modification, please check your rules.
Wrong Mask.	Invalid MAC mask, please check your MAC Mask.
Wrong MAC address.	Invalid MAC address, please check your MAC address.

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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
CarIID	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 0—Inbound. 1—Outbound. 	N/A
Type	Match type	Index	Enumeration : <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> GreenActionType GreenActionValue 	GreenActionValue is required when GreenActionType is not 1, 10 or 19.
GreenActionType	Action type	N/A	Enumeration: <ul style="list-style-type: none"> 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
			<ul style="list-style-type: none"> • 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-precedence-continue. • 19—continue. 	<p>MPLS packet and send it.</p> <p>When GreenActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When GreenActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When GreenActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When GreenActionType is 8, drop the packet.</p> <p>When GreenActionType is 10, remark local precedence of the packet and send it.</p> <p>When GreenActionType is 11, remark DSCP value of the packet and continue to process it using the next CAR policy.</p> <p>When GreenActionType is 12, remark IP precedence of the packet and continue to process it using the next CAR policy.</p> <p>When GreenActionType is 13, remark EXP of the MPLS packet and continue to process it using the next CAR policy.</p> <p>When GreenActionType is 14, remark 802.1p priority value of the packet and continue to process it using the next CAR policy.</p> <p>When GreenActionType is 15, remark CLP bit of the ATM packet and continue to process it using the next CAR policy.</p> <p>When GreenActionType is 16, remark DE bit of the FR packet and continue to process it using the next CAR policy.</p> <p>When GreenActionType is 17, remark local precedence of the packet and continue to process it using the next CAR policy.</p> <p>When GreenActionType is 19, continue to process the packet using the next CAR policy.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
GreenActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	<p>When GreenActionType is 1, 10 or 19, GreenActionValue is invalid.</p> <p>When GreenActionType is 6, 7, 15, 16, GreenActionValue is 0~1.</p> <p>When GreenActionType is 3, 4, 5, 8, 12, 13, 14, 17, GreenActionValue is 0~7.</p> <p>When GreenActionType is 2, 11, GreenActionValue is 0~63.</p>
YellowAction	Specify behavior for Yellow packets	Data structure	Members include: <ul style="list-style-type: none"> YellowActionType YellowActionValue 	YellowActionValue is required when GreenActionType is not 1, 10 or 19.
YellowActionType	Action type	N/A	Enumeration: <ul style="list-style-type: none"> 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. 	<p>The default YellowActionType is pass.</p> <p>When YellowActionType is 1, send the packet.</p> <p>When YellowActionType is 2, remark DSCP value of the packet and send it.</p> <p>When YellowActionType is 3, remark IP precedence of the packet and send it.</p> <p>When YellowActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When YellowActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When YellowActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When YellowActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When YellowActionType is 8, drop the packet.</p> <p>When YellowActionType is 10, remark local precedence of the packet and send it.</p> <p>When YellowActionType is 11, remark DSCP value of the packet and continue to process it using the next CAR policy.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>When YellowActionType is 12, remark IP precedence of the packet and continue to process it using the next CAR policy.</p> <p>When YellowActionType is 13, remark EXP of the MPLS packet and continue to process it using the next CAR policy.</p> <p>When YellowActionType is 14, remark 802.1p priority value of the packet and continue to process it using the next CAR policy.</p> <p>When YellowActionType is 15, remark CLP bit of the ATM packet and continue to process it using the next CAR policy.</p> <p>When YellowActionType is 16, remark DE bit of the FR packet and continue to process it using the next CAR policy.</p> <p>When YellowActionType is 17, remark local precedence of the packet and continue to process it using the next CAR policy.</p> <p>When YellowActionType is 19, continue to process the packet using the next CAR policy.</p>
YellowActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	<p>When YellowActionType is 1, 10 or 19, YellowActionValue is invalid.</p> <p>When YellowActionType is 6, 7, 15, 16, YellowActionValue is 0~1.</p> <p>When YellowActionType is 3, 4, 5, 8, 12, 13, 14, 17, YellowActionValue is 0~7.</p> <p>When YellowActionType is 2, 11, YellowActionValue is 0~63.</p>
RedAction	Specify behavior for Red packets	Data structure	Members include: <ul style="list-style-type: none"> RedActionType RedActionValue 	RedActionValue is required when GreenActionType is not 1, 10 or 19.
RedActionType	Action type	N/A	Enumeration: <ul style="list-style-type: none"> 1—pass. 	The default RedActionType is discard.

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> • 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. 	<p>When RedActionType is 1, send the packet.</p> <p>When RedActionType is 2, remark DSCP value of the packet and send it.</p> <p>When RedActionType is 3, remark IP precedence of the packet and send it.</p> <p>When RedActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When RedActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When RedActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When RedActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When RedActionType is 8, drop the packet.</p> <p>When RedActionType is 10, remark local precedence of the packet and send it.</p> <p>When RedActionType is 11, remark DSCP value of the packet and continue to process it using the next CAR policy.</p> <p>When RedActionType is 12, remark IP precedence of the packet and continue to process it using the next CAR policy.</p> <p>When RedActionType is 13, remark EXP of the MPLS packet and continue to process it using the next CAR policy.</p> <p>When RedActionType is 14, remark 802.1p priority value of the packet and continue to process it using the next CAR policy.</p> <p>When RedActionType is 15, remark CLP bit of the ATM packet and continue to process it using the next CAR policy.</p> <p>When RedActionType is 16, remark DE bit of the FR packet and continue to process it using the next CAR policy.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>When RedActionType is 17, remark local precedence of the packet and continue to process it using the next CAR policy.</p> <p>When RedActionType is 19, continue to process the packet using the next CAR policy.</p>
RedActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	<p>When RedActionType is 1, 10 or 19, RedActionValue is invalid.</p> <p>When RedActionType is 6, 7, 15, 16, RedActionValue is 0~1.</p> <p>When RedActionType is 3, 4, 5, 8, 12, 13, 14, 17, RedActionValue is 0~7.</p> <p>When RedActionType is 2, 11, RedActionValue is 0~63.</p>

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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
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> DestSubnetIP 	The two members must both be specified.

	subnet.		<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Inbound. 1—Outbound. 	N/A
Type	Match type	Index	Enumeration : <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> GreenActionType GreenActionValue 	N/A
GreenActionType	Action type	N/A	Enumeration: <ul style="list-style-type: none"> 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 	<p>The default GreenActionType is pass.</p> <p>When GreenActionType is 1, send the packet.</p> <p>When GreenActionType is 2, remark DSCP value of the packet and send it.</p> <p>When GreenActionType is 3, remark IP precedence of the packet and send it.</p> <p>When GreenActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When GreenActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When GreenActionType</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
			<p>continue</p> <ul style="list-style-type: none"> • 14—remark-dot1p-continue • 15—remark-atm-clp-continue. • 16—remark-fr-de-continue. • 17—remark-local-precedence-continue. • 19—continue 	<p>is 6, remark CLP bit of the ATM packet and send it.</p> <p>When GreenActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When GreenActionType is 8, drop the packet.</p> <p>When GreenActionType is 10, remark local precedence of the packet and send it.</p> <p>When GreenActionType is 11, remark DSCP value of the packet and continue to process it using the next CAR policy.</p> <p>When GreenActionType is 12, remark IP precedence of the packet and continue to process it using the next CAR policy.</p> <p>When GreenActionType is 13, remark EXP of the MPLS packet and continue to process it using the next CAR policy.</p> <p>When GreenActionType is 14, remark 802.1p priority value of the packet and continue to process it using the next CAR policy.</p> <p>When GreenActionType is 15, remark CLP bit of the ATM packet and continue to process it using the next CAR policy.</p> <p>When GreenActionType is 16, remark DE bit of the FR packet and continue to process it using the next CAR policy.</p> <p>When GreenActionType is 17, remark local precedence of the packet and continue to process it using the next CAR policy.</p> <p>When GreenActionType is 19, continue to process the packet using the next CAR policy.</p>
GreenActionValue	Action value	N/A	<p>Unsigned integer.</p> <p>Value range: 0 to 63.</p>	<p>When GreenActionType is 1, 10 or 19, GreenActionValue is invalid.</p> <p>When GreenActionType is 6, 7, 15, 16, GreenActionValue is 0~1.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>When GreenActionType is 3, 4, 5, 8, 12, 13, 14, 17, GreenActionValue is 0~7.</p> <p>When GreenActionType is 2, 11, GreenActionValue is 0~63.</p>
YellowAction	Specify behavior for Yellow packets	Data structure	Members include: <ul style="list-style-type: none"> YellowActionType YellowActionValue 	N/A
YellowActionType	Action type	N/A	Enumeration: <ul style="list-style-type: none"> 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 	<p>The default YellowActionType is pass.</p> <p>When YellowActionType is 1, send the packet.</p> <p>When YellowActionType is 2, remark DSCP value of the packet and send it.</p> <p>When YellowActionType is 3, remark IP precedence of the packet and send it.</p> <p>When YellowActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When YellowActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When YellowActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When YellowActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When YellowActionType is 8, drop the packet.</p> <p>When YellowActionType is 10, remark local precedence of the packet and send it.</p> <p>When YellowActionType is 11, remark DSCP value of the packet and continue to process it using the next CAR policy.</p> <p>When YellowActionType is 12, remark IP precedence of the packet and continue to process it using the next CAR policy.</p> <p>When YellowActionType is 13, remark EXP of the MPLS packet and continue to process it using the next CAR policy.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>When YellowActionType is 14, remark 802.1p priority value of the packet and continue to process it using the next CAR policy.</p> <p>When YellowActionType is 15, remark CLP bit of the ATM packet and continue to process it using the next CAR policy.</p> <p>When YellowActionType is 16, remark DE bit of the FR packet and continue to process it using the next CAR policy.</p> <p>When YellowActionType is 17, remark local precedence of the packet and continue to process it using the next CAR policy.</p> <p>When YellowActionType is 19, continue to process the packet using the next CAR policy.</p>
YellowActionValue	Action value	N/A	Unsigned integer. Value range: 0 to 63.	<p>When YellowActionType is 1, 10 or 19, YellowActionValue is invalid.</p> <p>When YellowActionType is 6, 7, 15, 16, YellowActionValue is 0~1.</p> <p>When YellowActionType is 3, 4, 5, 8, 12, 13, 14, 17, YellowActionValue is 0~7.</p> <p>When YellowActionType is 2, 11, YellowActionValue is 0~63.</p>
RedAction	Specify behavior for Red packets	Data structure	Members include: <ul style="list-style-type: none"> RedActionType RedActionValue 	N/A
RedActionType	Action type	N/A	Enumeration: <ul style="list-style-type: none"> 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 	<p>The default RedActionType is discard.</p> <p>When RedActionType is 1, send the packet.</p> <p>When RedActionType is 2, remark DSCP value of the packet and send it.</p> <p>When RedActionType is 3, remark IP precedence of the packet and send it.</p> <p>When RedActionType is 4, remark EXP of the MPLS packet and send it.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> • 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 	<p>When RedActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When RedActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When RedActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When RedActionType is 8, drop the packet.</p> <p>When RedActionType is 10, remark local precedence of the packet and send it.</p> <p>When RedActionType is 11, remark DSCP value of the packet and continue to process it using the next CAR policy.</p> <p>When RedActionType is 12, remark IP precedence of the packet and continue to process it using the next CAR policy.</p> <p>When RedActionType is 13, remark EXP of the MPLS packet and continue to process it using the next CAR policy.</p> <p>When RedActionType is 14, remark 802.1p priority value of the packet and continue to process it using the next CAR policy.</p> <p>When RedActionType is 15, remark CLP bit of the ATM packet and continue to process it using the next CAR policy.</p> <p>When RedActionType is 16, remark DE bit of the FR packet and continue to process it using the next CAR policy.</p> <p>When RedActionType is 17, remark local precedence of the packet and continue to process it using the next CAR policy.</p> <p>When RedActionType is 19, continue to process the packet using the next CAR policy.</p>
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: <ul style="list-style-type: none">• 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.

Contents

CAR1

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CAR

CAR

Message	Explanation
PIR can't be smaller than CIR. PIR的值不能小于CIR。	Configure a CAR action, PIR can't be smaller than CIR. 配置流量监管动作，峰值速率不能小于承诺信息速率。
The end address should be larger than the start address. 结束地址值应该大于起始地址值。	Configure a CAR list, The end address should be larger than the start address. 配置CAR列表，IP地址段终止地址必须大于IP地址段起始地址。
The number of IP addresses in the IP address range exceeds %u. IP地址的数量超出了个数为%u的限制。	Configure a CAR list, The number of IP addresses in the IP address range has max number. 配置CAR列表，IP地址段数量存在上限。
Total UNI bandwidth can't be greater than NNI bandwidth. 下行接口总带宽不能超过上行接口带宽。	Total UNI bandwidth can't be greater than NNI bandwidth. 配置带宽保证组，下行接口总带宽不能超过上行接口带宽。
Please remove UNI configuration of this interface first. 请先删除下行接口配置。	Del if CAR, remove UNI configuration of this interface first. 删除接口CAR配置时需要保证此接口不是带宽保证组的下行口。
The maximum number of CAR policies that can be configured has been reached. CAR策略的数目已经达到最大值。	The maximum number of CAR policies that can be configured has been reached. 接口下配置流量监管的数量存在上限。
CIR or PIR must be configured in the same unit (percentage or kbps) as it was previously configured. 必须与之前配置的CIR或者PIR配置相同单位（percentage or kbps）	CIR or PIR must be configured in the same unit (percentage or kbps) as it was previously configured. 接口下配置流量监管的单位需要保持一致。
Percentage-based CAR can be only used on interface. 百分比CAR只能被应用到接口。	Percentage-based CAR can be only used on interface. 百分比CAR只能被应用到接口。

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CELLULAR

CELLULAR/CellularVerificationEnable

This table is used to enable or disable pin verification in a specific cellular interface.

XML structure

```
<Cellular>
  <CellularVerificationEnable>
    <VerificationEnable>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <PinCode></PinCode>
    </VerificationEnable>
  </CellularVerificationEnable>
</Cellular>
```

Table description

Item	Description
Feature name	Cellular
Table name	CellularVerificationEnable
Table type	Multi-instance table
Row name	VerificationEnable
Restrictions	This table supports interface types: Cellular interface

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 or disable pin verification	N/A	Boolean: <ul style="list-style-type: none"> • false—Disable • true—Enable 	N/A
PinCode	Pin Code	N/A	String of digits Length: 4 to 6	Pin code may be required, It is determined by the device.

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CELLULAR

CELLULAR/CellularMode

This table contains the information about network connection mode.

XML structure

```
<Cellular>
  <CellularMode>
    <Mode>
      <IfIndex></IfIndex>
      <ModeType></ModeType>
    </Mode>
  </CellularMode>
</Cellular>
```

Table description

Item	Description
Feature name	Cellular
Table name	CellularMode
Table type	Multi-instance table
Row name	Mode
Restrictions	This table supports interface types: Cellular 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 "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
ModeType	network connection mode	N/A	Enumeration: <ul style="list-style-type: none"> 1—1XRTT. 2—EVDO. 3—HYBRID. 4—GSMONLY. 5—GSMPREFER. 6—WCDMAONLY. 7—WCDMAPREFER. 8—TDONLY. 9—TDPREFER. 10—LTEONLY. 11—AUTO. 	Which mode is supported depends on the device. The default ModeType depends on the modem model.

CELLULAR/CellularApnProfile

This table contains the information about network cellular apn-profile.

XML structure

```

<Cellular>
  <CellularApnProfile>
    <ApnProfile>
      <ProfileName></ProfileName>
      <ProfileType></ProfileType>
      <Apn></Apn>
      <AuthType></AuthType>
      <UserName></UserName>
      <PassWord></PassWord>
    </ApnProfile>
  </CellularApnProfile>
</Cellular>

```

Table description

Item	Description
Feature name	Cellular
Table name	CellularApnProfile
Table type	Multi-instance table
Row name	ApnProfile
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ProfileName	Profile name	Index	String. case-sensitive. Length: 1 to 31 characters.	N/A
ProfileType	Access point type	N/A	Enumeration: <ul style="list-style-type: none">• 0—dynamic.• 1—static.	When the ProfileType is dynamic, apn is not needed, otherwise apn is required.
Apn	Access point name	N/A	String. case-sensitive. Length: 1 to 100 characters.	Only when the ProfileType is static, the Apn is required.
AuthType	Specifies the authentication mode	N/A	Enumeration: <ul style="list-style-type: none">• 1—pap.• 2—chap.• 3—pap and chap	When choosing the AuthType, UserName and PassWord is required.
UserName	User name	N/A	String. case-sensitive. Length: 1 to 32 characters.	N/A
PassWord	Password string	N/A	String. case-sensitive. Length: 1 to 32 characters.	N/A

CELLULAR/CellularApplyProfile

This table contains the information about cellular apply profile to an interface.

XML structure

```
<Cellular>
  <CellularApplyProfile>
    <ApplyProfile>
      <IfIndex></IfIndex>
      <MainProfile></MainProfile>
      <BackupProfile></BackupProfile>
    </ApplyProfile>
  </CellularApplyProfile>
</Cellular>
```


Table description

Item	Description
Feature name	Cellular
Table name	CellularApplyProfile
Table type	Multi-instance table
Row name	ApplyProfile
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.	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.
MainProfile	Main parameter profile	N/A	String. case-sensitive. Length: 1 to 31 characters.	Configure the main apn profile first.
BackupProfile	Backup parameter profile	N/A	String. case-sensitive. Length: 1 to 31 characters.	N/A

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Columns.....	5

CELLULAR

CELLULAR/CellularMode

This table contains the information about network connection mode.

XML structure

```
<Cellular>
  <CellularMode>
    <Mode>
      <IfIndex></IfIndex>
      <ModeType></ModeType>
      <ModeSupport></ModeSupport>
    </Mode>
  </CellularMode>
</Cellular>
```

Table description

Item	Description
Feature name	Cellular
Table name	CellularMode
Table type	Multi-instance table
Row name	Mode
Restrictions	This table supports interface types: Cellular interface

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
ModeType	Network connection mode	N/A	Enumeration: <ul style="list-style-type: none"> • 0—Unknown. • 1—CDMA-1x RTT. • 2—CDMA-EVDO. • 3—Hybrid. • 4—GSM. • 5—GSM-Preference. • 6—WCDMA. • 7—WCD-Preference. • 8—TD-SCDMA. • 9—TD-Preference. • 10—LTE. • 11—Auto. 	Some devices get the ModeType is unknown, when they don't have SIM/UM card.
ModeSupport	The modem support mode	N/A	Unsigned integer.	ModeSupport is bitmap. Only be used to get the support network connection mode. Auto: 1 CDMA-1x RTT: 1 << 1 CDMA-EVDO: 1 << 2 Hybrid: 1 << 3 GSM: 1 << 4 GSM-Preference: 1 << 5 WCDMA: 1 << 6 WCD-Preference: 1 << 7 TD-SCDMA: 1 << 8 TD-Preference: 1 << 9 LTE: 1 << 10

CELLULAR/CellularVerificationDis

This table contains the information about pin verification.

XML structure

```

<Cellular>
  <CellularVerificationDis>
    <VerificationDis>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </VerificationDis>
  </CellularVerificationDis>
</Cellular>

```


Table description

Item	Description
Feature name	Cellular
Table name	CellularVerificationDis
Table type	Multi-instance table
Row name	VerificationDis
Restrictions	This table supports interface types: Cellular interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
lflIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about lflIndex, see "Appendix" in lfmgr NETCONF XML API Configuration Reference.
Enable	Enable or disable pin verification	N/A	Boolean: <ul style="list-style-type: none">• false—Disable• true—Enable	N/A

CELLULAR/CellularApnProfile

This table contains the information about network cellular apn-profile.

XML structure

```
<Cellular>
  <CellularApnProfile>
    <ApnProfile>
      <ProfileName></ProfileName>
      <ProfileType></ProfileType>
      <Apn></Apn>
      <AuthType></AuthType>
      <UserName></UserName>
      <PassWord></PassWord>
    </ApnProfile>
  </CellularApnProfile>
</Cellular>
```



```
</CellularApnProfile>  
</Cellular>
```

Table description

Item	Description
Feature name	Cellular
Table name	CellularApnProfile
Table type	Multi-instance table
Row name	ApnProfile
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
ProfileName	Profile name	Index	String. case-sensitive. Length: 1 to 31 characters.
ProfileType	Access point type	N/A	Enumeration: <ul style="list-style-type: none">• 0—dynamic.• 1—static.
Apn	Access point name	N/A	String. case-sensitive. Length: 1 to 100 characters.
AuthType	Specifies the authentication mode	N/A	Enumeration: <ul style="list-style-type: none">• 1—pap.• 2—chap.• 3—pap and chap
UserName	User name	N/A	String. case-sensitive. Length: 1 to 32 characters.
PassWord	Password string	N/A	String. case-sensitive. Length: 1 to 32 characters.

CELLULAR/CellularApplyProfile

This table contains the information about cellular apply profile to an interface.

XML structure

```
<Cellular>  
  <CellularApplyProfile>  
    <ApplyProfile>  
      <IfIndex></IfIndex>
```



```

    <MainProfile></MainProfile>
    <BackupProfile></BackupProfile>
  </ApplyProfile>
</CellularApplyProfile>
</Cellular>

```

Table description

Item	Description
Feature name	Cellular
Table name	CellularApplyProfile
Table type	Multi-instance table
Row name	ApplyProfile
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.
MainProfile	Main parameter profile	N/A	String. case-sensitive. Length: 1 to 31 characters.	N/A
BackupProfile	Backup parameter profile	N/A	String. case-sensitive. Length: 1 to 31 characters.	N/A

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Comware 7 Cellular NETCONF XML API Error Message Reference

Cellular/CellularVerify

Message	Explanation
Failed to process the command, because another command is being processed. 正在使用中，配置失败。	Another command is being processed. 有未执行完的配置。
This command is not supported. 不支持此命令。	The device does not support this command. 设备不支持这个命令。
CELLULAR is not configured. CELLULAR口未配置。	The cellular need to be configured. 需要配置cellular接口。
UIM card has been locked. Please verify PIN first. UIM卡锁定，请先解锁。	UIM card has been locked. UIM卡被锁定。
SIM card has been locked. Please verify PIN first. SIM卡锁定，请先解锁。	SIM card has been locked. SIM卡被锁定。
Please enable PIN verification first. 请先使能PIN认证功能	Need to be enable PIN verification. 需要使能PIN认证。
Failed to change the PIN, and the number of retries remaining is x. 改变PIN码失败剩余次数x次。	The SIM card will be locked after a certain number of failed to change the PIN 更改PIN失败x次后SIM卡会被锁定。
Failed to change the PIN. 改变PIN码失败。	Failed to change the PIN. 改变PIN码失败。
PIN has been locked. Please use PUK to unlock PIN. PIN锁定，请先使用PUK解锁。	PIN has been locked. PIN被锁定。
3G Modem has no PIN verification requirement. 3G上网卡没有PIN认证需求。	It does not need to be enable PIN verification. 不需要PIN认证。
Failed to verify PIN, and the number of retries remaining is x. 认证PIN失败剩余次数x次。	The SIM card will be locked after a certain number of failed to verify PIN 认证PIN失败x次后SIM卡会被锁定。
Failed to verify PIN. 认证PIN失败。	PIN Code is error. PIN码错误。
No 3G/4G modem on this interface. 3G/4G Modem不存在。	No 3G/4G modem on this interface. 3G/4G Modem不存在。
3G/4G Modem is being initialized. Please wait. 正在初始化3G/4G上网卡，请稍等片刻。	3G/4G Modem is in the process of being started. 3G/4G上网卡正在启动。
3G/4G Modem is abnormal.	3G/4G Modem is in wrong state.

3G/4G上网卡异常。

3G/4G上网卡状态异常。

Cellular/UnLock

Message	Explanation
Operation failed because there is no PIN unlocking requirement. 操作失败，没有PIN码解锁请求。	3G modem has no PIN unlocking requirement. 3G Modem没有PIN码解锁要求。
Failed to unlock the PIN, and the number of retries remaining is x. 解锁失败，剩余解锁次数x。.	The SIM card will be locked after a certain number of failed to unlock the PIN 解锁PIN失败x次后SIM卡会被锁定。
Failed to unlock the PIN. PIN码解锁失败。	PIN Code is error. PIN码错误。
PIN Code is invalid. PIN码不合法。	PIN Code is error. PIN码错误。
PUK Code is invalid. PUK码不合法。	PUK Code is error. PUK码错误。
No 3G/4G modem on this interface. 3G/4G Modem不存在。	The operation can't be used on the interface which has not a 3G/4G modem. 没有3G/4G modem的接口不能执行这个操作。
3G/4G Modem is being initialized. Please wait. 正在初始化3G/4G上网卡，请稍等。	3G/4G Modem is in the process of being started. 3G/4G上网卡正在启动。
3G/4G Modem is abnormal. 3G/4G上网卡异常。	3G/4G Modem is in wrong state. 3G/4G上网卡状态异常。
Failed to process the command, because another command is being processed. 正在使用中，配置失败。	Another command is being processed. 有未执行完的配置。
This command is not supported. 不支持此命令。	The device does not support this command. 设备不支持这个命令。

Cellular/CellularVerificationEnable

Message	Explanation
UIM card has been locked. Please verify PIN first. UIM卡锁定，请先解锁。	UIM card has been locked. UIM卡被锁定。
SIM card has been locked. Please verify PIN first. SIM卡锁定，请先解锁。	SIM card has been locked. SIM卡锁定。
PIN has been locked. Please use PUK to unlock PIN. PIN锁定，请先使用PUK解锁。	PIN has been locked. PIN码被锁定。

PIN is not required. 不需要PIN码。	No need to enter a PIN. 不需要输入PIN码。
PIN is required. 需要PIN码。	need to enter a PIN. 需要输入PIN码。
Failed to enable PIN verification, and the number of retries remaining is x. 开启PIN认证失败，剩余次数：x次。	The SIM card will be locked after a certain number of failed to enable PIN verification. 开启认证PIN失败x次后，SIM卡会被锁定。
Failed to disable PIN verification, and the number of retries remaining is x. 关闭PIN认证失败，剩余次数：x次。	The SIM card will be locked after a certain number of failed to disable PIN verification. 关闭认证PIN失败x次后，SIM卡会被锁定。
Failed to enable PIN verification. 开启PIN认证失败。	Failed to enable PIN verification. 开启PIN认证失败。
Failed to disable PIN verification. 关闭PIN认证失败。	Failed to disable PIN verification. 关闭PIN认证失败。
The configuration doesn't meet the requirements. 不符合配置要求。	The configuration parameter is incomplete. 配置参数不全。
PIN Code is invalid. PIN码不合法。	PIN Code is error. PIN码错误。
No 3G/4G modem on this interface. 3G/4G Modem不存在。	The operation can't be used on the interface which has not a 3G/4G modem. 没有3G/4G modem的接口不能执行这个操作。
3G/4G Modem is being initialized. Please wait. 正在初始化3G/4G上网卡，请稍等片刻。	3G/4G Modem is in the process of being started. 3G/4G上网卡正在启动。
3G/4G Modem is abnormal. 3G/4G上网卡异常。	3G/4G Modem is in wrong state. 3G/4G上网卡状态异常。
Failed to process the command, because another command is being processed. 正在使用中，配置失败。	Another command is being processed. 有未执行完的配置。
This command is not supported. 不支持此命令。	The device does not support this command. 设备不支持这个命令。

Cellular/CellularMode

Message	Explanation
Failed to get the network connection mode. 获取网络连接模式失败。	Failed to get the network connection mode. 获取网络连接模式失败。
Don't support the mode. 不支持此连接模式。	Don't support the mode. 不支持此连接模式。
No 3G/4G modem on this interface. 3G/4G Modem不存在。	The operation can't be used on the interface which has not a 3G/4G modem.

3G/4G Modem is being initialized. Please wait. 正在初始化3G/4G上网卡，请稍等片刻。	没有3G/4G modem的接口不能执行这个操作。
3G/4G Modem is abnormal. 3G/4G上网卡异常。	3G/4G Modem is in the process of being started. 3G/4G上网卡正在启动。
Failed to process the command, because another command is being processed. 正在使用中，配置失败。	3G/4G Modem is in wrong state. 3G/4G上网卡状态异常。
This command is not supported. 不支持此命令。	Another command is being processed. 有未执行完的配置。
	The device does not support this command. 设备不支持这个命令。

Cellular/CellularVerificationDis

Message	Explanation
Failed to get pin verification. 获取PIN认证失败。	Failed to get pin verification. 获取PIN认证失败。
No 3G/4G modem on this interface. 3G/4G Modem不存在。	The operation can't be used on the interface which has not a 3G/4G modem. 没有3G/4G modem的接口不能执行这个操作。
3G/4G Modem is being initialized. Please wait. 正在初始化3G/4G上网卡，请稍等片刻。	3G/4G Modem is in the process of being started. 3G/4G上网卡正在启动。
3G/4G Modem is abnormal. 3G/4G上网卡异常。	3G/4G Modem is in wrong state. 3G/4G上网卡状态异常。
Failed to process the command, because another command is being processed. 正在使用中，配置失败。	Another command is being processed. 有未执行完的配置。
This command is not supported. 不支持此命令。	The device does not support this command. 设备不支持这个命令。

Cellular/CellularProfile

Message	Explanation
Failed to create a parameter profile of 3G/4G Modem. 创建3G/4G Modem参数模板失败。	Failed to create a parameter profile of 3G/4G Modem. 创建3G/4G Modem参数模板失败。
Failed to delete a parameter profile of 3G/4G Modem. 删除3G/4G Modem参数模板失败。	Failed to delete a parameter profile of 3G/4G Modem. 删除3G/4G Modem参数模板失败。
The configuration doesn't meet the requirements. 不符合配置要求。	The configuration parameter is incomplete. 配置参数不全。

No 3G/4G modem on this interface. 3G/4G Modem不存在。	The operation can't be used on the interface which has not a 3G/4G modem. 没有3G/4G modem的接口不能执行这个操作。
3G/4G Modem is being initialized. Please wait. 正在初始化3G/4G上网卡，请稍等片刻。	3G/4G Modem is in the process of being started. 3G/4G上网卡正在启动。
3G/4G Modem is abnormal. 3G/4G上网卡异常。	3G/4G Modem is in wrong state. 3G/4G上网卡状态异常。
Failed to process the command, because another command is being processed. 正在使用中，配置失败。	Another command is being processed. 有未执行完的配置。
This command is not supported. 不支持此命令。	The device does not support this command. 设备不支持这个命令。

Cellular/CellularApnProfile

Message	Explanation
The configuration doesn't meet the requirements. 不符合配置要求。	The configuration parameter is incomplete. 配置参数不全。
The apn profile has been applied by interface, delete the applying first. 该参数模板已被接口应用，请先删除应用。	The apn profile has been applied by interface. 模板已在其他接口上使用。

Cellular/CellularApplyProfile

Message	Explanation
The configuration doesn't meet the requirements. 不符合配置要求。	The configuration parameter is incomplete. 配置参数不全。
Please configure the apn profile first. 请先配置参数模板。	This message means apn profile not be configured. apn profile模板不存在。

Cellular/CellularModemReboot

Message	Explanation
Cellular feature is not enabled. CELLULAR特性未启动。	This message means cellular not be configured. 没有cellular特性。
Failed to reboot 3G/4G Modem. 3G/4G Modem重启失败。	3G/4G Modem reboot failed. 3G/4G Modem重启失败。

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CMTNLMGR

Cmtnlmgr/CloudDomain

This table contains information about cloud domains.

XML structure

```
<Cmtnlmgr>
  <CloudDomainName>
    <DomainName></DomainName>
  </CloudDomainName>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudDomainName
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
DomainName	Name of the cloud domain.	N/A	String, case-sensitive. Length: 1 to 253 characters.	N/A

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CMTNLMGR

Cmtnlmgr/CloudAccount

This table contains information about cloud accounts.

XML structure

```
<Cmtnlmgr>
  <CloudAccount>
    <CloudAccountEntry>
      <CloudAccountName></CloudAccountName>
      <CloudConnectionState></CloudConnectionState>
    </CloudAccountEntry>
  </CloudAccount>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudAccount
Table type	Single-instance table
Row name	CloudAccountEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CloudAccountName	Name of the cloud account.	Index	String, case-sensitive. Length: 1 to 128 characters.	N/A
CloudConnectionState	Connection state of the cloud.	N/A	Enumeration. <ul style="list-style-type: none">1—Online2—Offline	N/A

Cmtnlmgr/CloudConnect

This table contains connection information for the cloud.

XML structure

```
<Cmtnlmgr>
  <CloudConnect>
    <CloudConnectEntry>
      <LastConnectTime></LastConnectTime>
      <LastSyncTime></LastSyncTime>
    </CloudConnectEntry>
  </CloudConnect>
</Cmtnlmgr>
```

Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudConnect
Table type	Single-instance table
Row name	CloudConnectEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LastConnectTime	Last connection time of the device.	N/A	String, case-sensitive. Length: 1 to 128 characters.	N/A
LastSyncTime	Last synchronization time of the device.	N/A	String, case-sensitive. Length: 1 to 128 characters.	N/A

Cmtnlmgr/CloudDomain

This table contains information about cloud domains.

XML structure

```
<Cmtnlmgr>
  <CloudDomainName>
    <DomainName></DomainName>
  </CloudDomainName>
</Cmtnlmgr>
```


Table description

Item	Description
Feature name	Cmtnlmgr
Table name	CloudDomainName
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DomainName	Name of the cloud domain	N/A	String, case-sensitive. Length: 1 to 253 characters.	N/A

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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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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: <ul style="list-style-type: none">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	Updelay timer in seconds	N/A	Unsigned integer. <ul style="list-style-type: none"> 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
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. • Default: 0.	The maximum collaboration group ID varies by device model..

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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XML structure	1
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Columns	2
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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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 0—N/A. 1—DOWN. 2—UP 3—UP-Pending. 	N/A
UpDelay	Updelay timer in seconds	N/A	Unsigned integer. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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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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: <ul style="list-style-type: none">• true• false
NextBackup	Whether the configuration file is the backup next-startup configuration file.	N/A	Boolean: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">truefalse

Column name	Column description	Column type	Data type and restrictions
			This column must coexist with the Save column.

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- Configuration.....1
 - Configuration/System.....1
 - XML structure.....1
 - Table description.....1
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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: <ul style="list-style-type: none">• 0—Unencrypted• 1—Private-key encryption• 2—Public-key encryption

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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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false
NextMain	Whether the configuration file is the main next-startup configuration file.	N/A	Boolean: <ul style="list-style-type: none"> true false
NextBackup	Whether the configuration file is the backup next-startup configuration file.	N/A	Boolean: <ul style="list-style-type: none"> 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	<p>On the default MDC or context, information about all MDCs or contexts can be queried.</p> <p>On a non-default MDC or context, only information about the current MDC or context can be queried.</p>

Columns

Column name	Column description	Column type	Data type and restrictions
MDCOrContextID	MDC or context index	Index	Unsigned integer.
Name	<p>Full path and filename. Example:</p> <ul style="list-style-type: none"> flash:/startup.cfg chassis3#slot1#flash:/main.cfg 	Index	<p>String.</p> <p>Length: 1 to 300 characters.</p>
Running	Whether the configuration file is the current startup configuration file.	N/A	<p>Boolean:</p> <ul style="list-style-type: none"> true false
NextMain	Whether the configuration file is the main next-startup configuration file.	N/A	<p>Boolean:</p> <ul style="list-style-type: none"> true false
NextBackup	Whether the configuration file is the backup next-startup configuration file.	N/A	<p>Boolean:</p> <ul style="list-style-type: none"> true false

Contents

Configuration.....1

 Configuration/Files 1

Configuration

Configuration/Files

Message	Explanation
The file name is invalid or the file is not in the root directory!	Startup configuration file must be in the root directory.
The file does not exist or is not as the same as the file on the active MPU.	Startup configuration file must be the same on all boards.
Please specify one or both of the NextMain and NextBackup columns.	Please specify the main next-startup configuration file or the backup next-startup configuration file.

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XML structure for event report	2

Configuration event stream

SaveEvent event

This event is used to report configuration saving operations.

XML structure for event subscription

```
<SaveEvent>
</SaveEvent>
```

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>Configuration</stream>
    <filter type="subtree">
      <SaveEvent xmlns="http://www.h3c.com/netconf/event:1.0/Configuration:1.0">
      </SaveEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Configuration
Event name	SaveEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Configuration:1.0
Support for extended query	No

XML structure for event report

```
<SaveEvent>
  <FileName>
  </FileName>
</SaveEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <SaveEvent xmlns="http://www.h3c.com/netconf/event:1.0/Configuration:1.0">
    <FileName>flash:/123.cfg</FileName>
  </SaveEvent>
</notification>
```


Columns

Column name	Column description	Data type and restrictions
FileName	File path and name	String. Length: 1 to 511 characters.

ConfigurationEvent event

This event is used to report configuration change information.

XML structure for event subscription

```
<ConfigurationEvent>  
</ConfigurationEvent>
```

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>Configuration</stream>  
    <filter type="subtree">  
      <ConfigurationEvent  
xmlns="http://www.h3c.com/netconf/event:1.0/Configuration:1.0">  
        </ConfigurationEvent >  
      </filter>  
    </create-subscription>  
  </rpc>
```

Table description

Item	Description
Event stream name	Configuration
Event name	ConfigurationEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Configuration:1.0
Support for extended query	No

XML structure for event report

```
<ConfigurationEvent>  
  <User></User>  
  <IpAddress></IpAddress>  
  <ConfigSource></ConfigSource>  
  <ConfigResult></ConfigResult>  
  <Context></Context>  
</ConfigurationEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
```



```

<eventTime>2016-07-21T09:10:51</eventTime>
<ConfigurationEvent xmlns="http://www.h3c.com/netconf/event:1.0/Configuration:1.0">
  <User>**</User>
  <IpAddress>**</IpAddress>
  <ConfigSource>CLI</ConfigSource>
  <ConfigResult>Success</ConfigResult>
  <Context>[system]:display this</Context>
</ConfigurationEvent>
</notification>

```

Columns

Column name	Column description	Data type and restrictions	Remarks
User	User-name of the configuration operator	String. Length: 1 to 255 characters.	If the user logged in through, for example, a console port, the value of this field is **
IpAddress	IP address of the configuration operator	String. Length: 1 to 255 characters.	If the user logged in through, for example, a console port, the value of this field is **
ConfigSource	Source of the configuration	String. Length: 1 to 255 characters.	The device supports only the CLI in the current software version.
ConfigResult	Configuration result	String. Length: 1 to 255 characters.	The values include Success and Failed .
Context	Executed command and the view of the command	String. Length: 1 to 1023 characters.	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>
      <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 information.

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: <ul style="list-style-type: none"> Unit. Value. 	“Unit” should be configed together with “value”
Unit	Unit of throughput	N/A	Enumeration: <ul style="list-style-type: none"> 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 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
SharedInterfaceList	List of shared interfaces	N/A	String.	firewall card :not support centralized firewall and packaging firewall:allocate shared interfaces. 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
VLAN	Vlan list	N/A	Numeric string separated by comma and minus,end of which can't be comma or minus,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: <ul style="list-style-type: none"> 1: inactive 2: starting 3: active 4: stopping 5: updating 	<ul style="list-style-type: none"> 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>

```



```

        <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	<p>firewall card:query contexts' memory resource in mdc the context belonged to ; query all contexts' memory resource in the default MDC.</p> <p>centralized firewall and packaging firewall:query all contexts' memory resource in the default Context.</p>

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 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.

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: <ul style="list-style-type: none"> Unit. Value. 	N/A
Unit	Unit of throughput	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">0: Invalid1: 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
			<p>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.</p> <p>The string cannot end with a comma or hyphen, or include any whitespace characters.</p>	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: <ul style="list-style-type: none"> true false 	N/A
ModeSupport	Check whether vlan mode can be configured.	N/A	Boolean: <ul style="list-style-type: none"> 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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Context

Context/ContextInformations

Message	Explanation
Not enough resources available for this context.	Not enough resources available for this context.
Number of contexts exceeded the limit.	Number of contexts exceeded the limit.
Another context is using the ID.	Another context is using the ID when creating a context. Please switch a new one.
The name is already exists.	The name is already exists when creating a new context.
Operation failed. The context is already started.	Operation failed. The context is already started.
The MDC is not authorized to use the blade controller team."	The MDC is not authorized to use the blade controller team.
The context doesn't belong to the MDC.	The context doesn't belong to the MDC.
This context has been assigned to another blade controller team.	This context has been assigned to another blade controller team.
Restoring context configuration. Please try again later.	Restoring context configuration. Please try again later.
Context is busy. Please try again later.	The context is starting or stopping. Please try again later if need do some set operations.
The context name and ID must identify the same context.	The context name and ID must identify the same context.
The mode is wrong. Please input the right mode according to the context ID.	The mode is wrong. Please input the right mode according to the context ID.
Invalid context ID or context name.	Invalid context ID or context name.
The default context can't be deleted.	The default context can't be deleted.
The default context can't be deleted.	The default context can't be deleted.

Context/Resources/Disks

Message	Explanation
Not enough disk space available.	Not enough disk space available when limit the disk space. Please set the limit bigger.
The context is not authorized to use this blade controller.	The context is not authorized to use this blade controller. So it cannot be limited the disk resource.
Restoring context configuration. Please try again later.	Restoring context configuration. Please try again later.
Context is busy. Please try again later.	The context is starting or stopping. Please try again later if need do some set operations.

Context/Resources/Memories

Message	Explanation
The context is not authorized to use this blade controller.	The context is not authorized to use this blade controller. So it cannot be limited the memory resource.
Restoring context configuration. Please try again later.	Restoring context configuration. Please try again later.
Context is busy. Please try again later.	The context is starting or stopping. Please try again later if need do some set operations.

Context/Resources/CPU's

Message	Explanation
Restoring context configuration. Please try again later.	Restoring context configuration. Please try again later.
Context is busy. Please try again later.	The context is starting or stopping. Please try again later if need do some set operations.

Context/LocationBladeControllerTeams(discard)

Message	Explanation
Authorization failed. Invalid blade-controller-team ID.	Authorization failed. Invalid blade-controller-team ID.
This context has been assigned to another blade controller team.	This context has been assigned to another blade controller team.
The MDC this context belongs to is not authorized to use the blade controller team.	The MDC this context belongs to is not authorized to use the blade controller team.
Restoring context configuration. Please try again later.	Restoring context configuration. Please try again later.
Context is busy. Please try again later.	The context is starting or stopping. Please try again later if need do some set operations.

Context/Allocation

Message	Explanation
Some interfaces are duplicated.	Some interfaces are duplicated.
Some VLANs are used by another context.	Some VLANs are used by another context.
Some interfaces name are invalid.	Some interfaces name are invalid.
Some interfaces have been allocated as other mode.	Some interfaces have been allocated as other mode.
Some type of interfaces can not be allocated to a context exclusively.	Some type of interfaces can not be allocated to a context exclusively.

Layer-2 Ethernet interface can not be allocated to a VLAN-shared context exclusively.	Layer-2 Ethernet interface can not be allocated to a VLAN-shared context exclusively.
Layer-2 Ethernet interface can not be allocated to a VLAN-unshared context in sharing mode.	Layer-2 Ethernet interface can not be allocated to a VLAN-unshared context in sharing mode.
Subinterfaces can not be allocated exclusively.	Subinterfaces can not be allocated exclusively.
Some interfaces' sub interface has been allocated.	Some interfaces' sub interface has been allocated.
Some interfaces' aggregate interface has been allocated.	Some interfaces' aggregate interface has been allocated.
Some interfaces' member interface has been allocated.	Some interfaces' member interface has been allocated.
Failed to allocate nonexistent VLANs.	Failed to allocate nonexistent VLANs.
Default VLAN can not be allocated.	Default VLAN can not be allocated.
Failed to allocate VLANs because some of them are configured as port PVIDs.	Failed to allocate VLANs because some of them are configured as port PVIDs.
Failed to allocate VLANs because some of them have VLAN interfaces.	Failed to allocate VLANs because some of them have VLAN interfaces.
VLAN interface can not be allocated to a VLAN-unshared context in sharing mode.	VLAN interface can not be allocated to a VLAN-unshared context in sharing mode.
Failed to allocate the interfaces in sharing mode because some of them are members of Reth groups.	Failed to allocate the interfaces in sharing mode because some of them are members of Reth groups.
Failed to allocate the interfaces in sharing mode because some of them are members of aggregation groups.	Failed to allocate the interfaces in sharing mode because some of them are members of aggregation groups.

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 - CustomLog/LogHost 1
 - XML structure 1
 - Table description 1
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 - XML structure 4
 - Table description 4
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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>
        <DPINetSharelog></DPINetSharelog>
        <SCDlog></SCDlog>
        <DPIIPSlog></DPIIPSlog>
      </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: <ul style="list-style-type: none"> • CmccSessionlog • CmccUserlog • TelecomSessionlog • TelecomUserlog • UnicomSessionlog • UnicomUserlog • Sessionlog • PacketFilterlog • ATKlog • AFTlog • DPIAuditlog • DPIUfltlog • DPINetSharelog • SCDlog 	N/A
CmccSessionlog	Enabling status of outputting session-based custom NAT444 logs in CMCC format to the log host	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled. • false—Disabled. 	N/A
CmccUserlog	Enabling status of outputting user-based custom NAT444 logs in CMCC format to the log host	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled. • false—Disabled. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TelecomSessionlog	Enabling status of outputting session-based custom NAT444 logs in Telecom format to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
TelecomUserlog	Enabling status of outputting user-based custom NAT444 logs in Telecom format to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
UnicomSessionlog	Enabling status of outputting session-based custom NAT444 logs in Unicom format to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
UnicomUserlog	Enabling status of outputting user-based custom NAT444 logs in Unicom format to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
Sessionlog	Enabling status of outputting session logs to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
PacketFilterlog	Enabling status of outputting packet filter logs to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
ATKlog	Enabling status of outputting ATK logs to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
AFTlog	Enabling status of outputting AFT logs to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
DPIAuditlog	Enabling status of outputting DPI audit logs to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
DPIUfltlog	Enabling status of outputting DPI URL filter logs to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
DPINetSharelog	Enabling status of outputting DPI netshare control	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	logs to the log host		<ul style="list-style-type: none"> false—Disabled. 	
SCDlog	Enabling status of outputting server connection detection logs to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
DPIIPSlog	Enabling status of outputting DPI IPS logs to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	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>
    <DPIDebugLogFormat></DPIDebugLogFormat>
    <DPIUfltLogFormat></DPIUfltLogFormat>
    <DPINetShareLogFormat></DPINetShareLogFormat>
    <SCDLogFormat></SCDLogFormat>
    <DPIIPSLogFormat></DPIIPSLogFormat>
    <DPIIPSUpdateLogFormat></DPIIPSUpdateLogFormat>
  </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Greenwich Mean Time(GMT). (Default) 1—Local time of device. 	N/A
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Output standard H3C format DPI audit logs. 1—Do not output DPI audit logs (Default). 	N/A
DPIUfltLogFormat	Format for outputting DPI	N/A	Enumeration: <ul style="list-style-type: none"> 0—Output standard H3C 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	URL filter custom logs		format DPI URL filter logs. <ul style="list-style-type: none"> 1—Do not output DPI URL filter logs (Default). 	
DPINetShareLogFormat	Format for outputting DPI netshare control logs	N/A	Enumeration: <ul style="list-style-type: none"> 0—Output standard H3C format DPI netshare control logs. 1—Do not output DPI netshare control logs (default). 	N/A
SCDLogFormat	Format for outputting server connection detection logs	N/A	Enumeration: <ul style="list-style-type: none"> 0—Output standard H3C format server connection detection logs. 1—Do not output server connection detection logs (default). 	N/A
DPIIPSLogFormat	Format for outputting DPI IPS custom logs	N/A	Enumeration: <ul style="list-style-type: none"> 0—Output standard H3C format DPI IPS logs. 1—Do not output DPI IPS logs (default). 2—Output SGCC format DPI IPS logs. 	N/A
DPIIPSUpdateLogFormat	Format for outputting DPI IPS signature update logs	N/A	Enumeration: <ul style="list-style-type: none"> 0—Output SGCC format DPI IPS signature update logs. 1—Do not output DPI IPS signature update logs (default). 	N/A

Contents

- CustomLog 1
 - CustomLog/LogHost 1
 - XML structure 1
 - Table description 1
 - Columns 2
 - CustomLog/LogAttribute 4
 - XML structure 4
 - Table description 4
 - Columns 5

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>
        <DPINetSharelog></DPINetSharelog>
        <SCDlog></SCDlog>
        <DPIIPSlog></DPIIPSlog>
      </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: <ul style="list-style-type: none"> • CmccSessionlog • CmccUserlog • TelecomSessionlog • TelecomUserlog • UnicomSessionlog • UnicomUserlog • Sessionlog • PacketFilterlog • ATKlog • AFTlog • DPIAuditlog • DPIUfltlog • DPINetSharelog • SCDlog 	N/A
CmccSessionlog	Enabling status of outputting session-based custom NAT444 logs in CMCC format to the log host	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled. • false—Disabled. 	N/A
CmccUserlog	Enabling status of outputting user-based custom NAT444 logs in CMCC format to the log host	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled. • false—Disabled. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
TelecomSessionlog	Enabling status of outputting session-based custom NAT444 logs in Telecom format to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
TelecomUserlog	Enabling status of outputting user-based custom NAT444 logs in Telecom format to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
UnicomSessionlog	Enabling status of outputting session-based custom NAT444 logs in Unicom format to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
UnicomUserlog	Enabling status of outputting user-based custom NAT444 logs in Unicom format to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
Sessionlog	Enabling status of outputting session logs to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
PacketFilterlog	Enabling status of outputting packet filter logs to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
ATKlog	Enabling status of outputting attack defense logs to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
AFTlog	Enabling status of outputting AFT logs to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
DPIAuditlog	Enabling status of outputting DPI audit logs to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
DPIUfltlog	Enabling status of outputting DPI URL filter logs to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
DPINetSharel	Enabling status of outputting DPI	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
og	netshare control logs to the log host		<ul style="list-style-type: none"> true—Enabled. false—Disabled. 	
SCDlog	Enabling status of outputting server connection detection logs to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
DPIIPSlog	Enabling status of outputting DPI IPS logs to the log host	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	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>
    <DPIDebugLogFormat></DPIDebugLogFormat>
    <DPIUfltLogFormat></DPIUfltLogFormat>
    <DPINetShareLogFormat></DPINetShareLogFormat>
    <SCDLogFormat></SCDLogFormat>
    <DPIIPSLogFormat></DPIIPSLogFormat>
    <DPIIPSUpdateLogFormat></DPIIPSUpdateLogFormat>
  </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.
SessionLogFormat	Format for outputting session custom logs	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Output standard H3C format DPI audit logs. 1—Do not output DPI audit logs. 	N/A
DPIUfltLogFormat	Format for outputting DPI	N/A	Enumeration: <ul style="list-style-type: none"> 0—Output standard H3C 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	URL filter custom logs		format DPI URL filter logs. <ul style="list-style-type: none"> 1—Do not output DPI url filter logs. 	
DPINetShareLogFormat	Format for outputting DPI netshare control logs	N/A	Enumeration: <ul style="list-style-type: none"> 0—Output standard H3C format DPI netshare control logs. 1—Do not output DPI netshare control logs. 	N/A
SCDLogFormat	Format for outputting server connection detection logs	N/A	Enumeration: <ul style="list-style-type: none"> 0—Output standard H3C format server connection detection logs. 1—Do not output server connection detection logs. 	N/A
DPIIPSLogFormat	Format for outputting DPI IPS custom logs	N/A	Enumeration: <ul style="list-style-type: none"> 0—Output standard H3C format DPI IPS logs. 1—Do not output DPI IPS logs. 2—Output SGCC format DPI IPS logs. 	N/A
DPIIPSUpdateLogFormat	Format for outputting DPI IPS signature update logs	N/A	Enumeration: <ul style="list-style-type: none"> 0—Output SGCC format DPI IPS signature update logs. 1—Do not output DPI IPS signature update 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: <ul style="list-style-type: none">• enable.• disable(default).

Column name	Column description	Column type	Data type and restrictions
ACS	ACS Settings	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• enable.• disable(default).
ACS	ACS Settings	Data structure	Members include: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • enable. • disable(default).
InformPeriodicInterval	Configure the periodic Inform interval of the CPE.	N/A	Unsigned integer. Value range: 10 to 86400.

Contents

CWMP1

 CWMP/Configuration 1

CWMP

CWMP/Configuration

Message	Explanation
Failed to enable CWMP.	Failed to start CWMP.
Please enable CWMP first.	First enable CWMP to do the replace, remove and delete operation.
Please check that CWMP is enabled and the operations do not include disabling CWMP.	When CWMP is set to disable, it is forbidden to set other parameters.
The specified interface is not supported.	The specified interface type is not supported.

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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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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	<p>In non-FIPS mode, a plaintext shared key is a string of 1 to 64 characters.</p> <p>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.</p>	The shared key is in plain text.

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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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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.

Contents

DaeProxy1

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DaeProxy

DaeProxy/DaeProxyService

Message	Explanation
Can't set the DAE listening port when disabling RADIUS DAE proxy.	Can't set the DAE listening port when disabling RADIUS DAE proxy.
Can't set the DAE listening port when RADIUS DAE proxy is disabled.	Can't set the DAE listening port when RADIUS DAE proxy is disabled.

DaeProxy/DaeProxyClients

Message	Explanation
Invalid IP address.	Invalid IP address.

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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
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>
```



```

    <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—upload 1—download 2—both 	Default is 0.
Action	Action for packets matching the rule	N/A	Enumeration: <ul style="list-style-type: none"> 0—drop 1—permit 	Default is 0.
Logging	Logging or not	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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/PatternInKGroup	4
XML structure	4
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Columns	5
DFILTER/PrePatternInKGroup	5
XML structure	5
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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

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: <ul style="list-style-type: none">1—HTTP2—FTP4—SMTP8—IMAP16—POP332—NFS64—SMB128—RTMP	Examples: <ul style="list-style-type: none">3—Application is HTTP and FTP.
Direction	Direction of the rule	N/A	Enumeration: <ul style="list-style-type: none">0—upload.1—download2—both	Default is 0.
Action	Action for packets matching the rule	N/A	Enumeration: <ul style="list-style-type: none">0—drop.1—permit	Default is 0.
Logging	Logging or not	N/A	Boolean: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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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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>&dnst=<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
				GNU DIP	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.comcast.net, ph801.comcast.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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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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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
				GNU DIP	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.comcast.net, ph801.comcast.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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 (.).

Contents

- DDNS1
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DDNS

DDNS/DDNSPolicy

Message	Explanation
The URL can't include the username or password. Enter the username and password in the corresponding fields.	The URL can't include the username or password. Enter the username and password in the corresponding fields , please modify configuration under guidance.
Maximum number of DDNS policies already reached.	Maximum number of DDNS policies already reached. Please check configuration or specifications.
The configuration doesn't meet the requirements.	The configuration doesn't meet the requirements, please modify configuration under guidance.

DDNS/DDNSIfApply

Message	Explanation
Maximum number of DDNS policies applied on the interface already reached.	Maximum number of DDNS policies applied on the interface already reached .Please check configuration or specifications.
Failed to apply the DDNS policy.	Failed to apply the DDNS policy, please modify configuration under guidance.

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DDR

DDR/DiaGroupRule

This table contains dialer-group rule information.

XML structure

```
<DDR>
  <DiaGroupRule>
    <GroupRule>
      <GroupNumber></GroupNumber>
      <IpProtocol></IpProtocol>
      <IpPermit></IpPermit>
      <AclNum></AclNum>
      <AclName></AclName>
    </GroupRule>
  </DiaGroupRule>
</DDR>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNumber	Dialer-group rule <i>group-number</i>	Index	Unsigned integer. Value range: 1 to 255	N/A
IpProtocol	Dialer-group rule ip protocol	Index	Enumeration: <ul style="list-style-type: none">• 0—IPv4 protocol• 1—IPv6 protocol	N/A
IpPermit	Denies or permits packets of the	N/A	Boolean:	IpPermit AclNum AclName are mutually

Column name	Column description	Column type	Data type and restrictions	Remarks
	specified protocol		<ul style="list-style-type: none"> • false • true 	<p>exclusive relationship.</p> <p>When executing the create, merge, replace operation must and only be use one of IpPermit, AclNum, AclName.</p> <p>Whe performing the delete, remove operation, one of IpPermit, AclNum, AclName don't need.</p>
AclNum	Specifies an ACL by its number	N/A	<p>Unsigned integer.</p> <p>Value range: 2000 to 3999</p>	N/A
AclName	Specifies an ACL by its name	N/A	<p>String, case insensitive.</p> <p>Length: 1 to 63 characters.</p>	<p>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.</p>

DDR/DiaBundle

This table contains the dialer bundle enable of DDR information.

XML structure

```

<DDR>
  <Bundle>
    <DiaBundle>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </DiaBundle>
  </Bundle>
</DDR>

```

Table description

Item	Description
Feature name	DDR
Table name	Bundle
Table type	Multi-instance table
Row name	DiaBundle

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.
Enable	Before using bundle DDR, use it to enable bundle DDR on a dialer interface.	N/A	Boolean: <ul style="list-style-type: none"> • true • false (default) 	N/A

DDR/IfDiaGroup

This table contains the dialer group of DDR information.

XML structure

```

<DDR>
  <IfDiaGroup>
    <DiaGroup>
      <IfIndex></IfIndex>
      <Num></Num>
    </DiaGroup>
  </IfDiaGroup>
</DDR>

```

Table description

Item	Description
Feature name	DDR
Table name	IfDiaGroup

Table type	Multi-instance table
Row name	DiaGroup
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.
Num	Specifies a dialer group by its number in the range of 1 to 255. Before the assignment, you must create the dialer group.	N/A	Unsigned integer. Value range: 1 to 255.	N/A

DDR/DDRAutodial

This table contains the information about using **dialer timer autodial** to set the auto-dial timer.

XML structure

```

<DDR>
  <DDRAutodial>
    <Autodial>
      <IfIndex></IfIndex>
      <Time></Time>
    </Autodial>
  </DDRAutodial>
</DDR>

```


Table description

Item	Description
Feature name	DDR
Table name	DDRAutodial
Table type	Multi-instance table
Row name	Autodial
Restrictions	This table supports interface types: am interface bri interface/subinterface asy interface aux interface serial interface dialer interface ethchannel 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 "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Time	Time of auto-dial	N/A	Unsigned integer. Value range: 1 to 604800. Default: 300.	Specifies the interval between auto-dial attempts.

DDR/DDRIidle

This table contains the information about using **dialer timer idle** to set the link idle-timeout timer.

XML structure

<DDR>


```

<DDRIidle>
  <Idle>
    <IfIndex></IfIndex>
    <Time></Time>
    <Direct></Direct>
  </Idle>
</DDRIidle>
</DDR>

```

Table description

Item	Description
Feature name	DDR
Table name	DDRIidle
Table type	Multi-instance table
Row name	Idle
Restrictions	<p>This table supports interface types:</p> <ul style="list-style-type: none"> am interface bri interface/subinterface asy interface aux interface serial interface dialer interface ethchannel 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 "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Time	link idle-timeout timer	N/A	Unsigned integer. Value range: 0 to 65535. Default: 120.	

Column name	Column description	Column type	Data type and restrictions	Remarks
Direct	Direct of interesting packets timer	N/A	Unsigned integer. <ul style="list-style-type: none"> • 1—OUT. • 2—IN. • 3—INOUT. 	Specifies the Direct of interesting packets timer.

DDR/DDRCircularEnable

This table contains the information about using **dialer circular enable** to enable traditional DDR on a dialup interface.

XML structure

```

<DDR>
  <DDRCircularEnable>
    <CircularEnable>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </CircularEnable>
  </DDRCircularEnable>
</DDR>

```

Table description

Item	Description
Feature name	DDR
Table name	DDRCircularEnable
Table type	Multi-instance table
Row name	CircularEnable
Restrictions	This table supports interface types: Dialup 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				your product. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Enable	Before using traditional DDR, use it to enable traditional DDR on the dialup interface.	N/A	Boolean: <ul style="list-style-type: none"> • true • false (default) 	N/A

DDR/DDRdialNumber

This table contains the information about using **dialer number** to configure a dial string for placing calls to a single remote site.

XML structure

```

<DDR>
  <DDRdialNumber>
    <DialNumber>
      <IfIndex></IfIndex>
      <Num></Num>
      <AutoDial></AutoDial>
    </DialNumber>
  </DDRdialNumber>
</DDR>

```

Table description

Item	Description
Feature name	DDR
Table name	DDRdialNumber
Table type	Multi-instance table
Row name	DialNumber
Restrictions	This table supports interface types: Dialup 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 "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Num	A dial string for calling a remote site	N/A	String, case-insensitive. Length: 1 to 30 characters.	Specifies a dial string for calling a remote site, a case-insensitive string of 1 to 30 characters.
AutoDial	Automatically dial the remote site	N/A	Unsigned integer. <ul style="list-style-type: none"> • 0—NOTAUTO(default). • 1—AUTO 	Enables the interface to automatically dial the remote site by using the specified dial string at specified intervals. The interval is set in the dialer timer autodial command and defaults to 300 seconds.

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XML structure	4
Table description	4
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XML structure	5
Table description	5
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DDR/DDRCircularEnable	6
XML structure	6
Table description	7
Columns	7
DDR/DDRDialNumber	7
XML structure	7
Table description	8
Columns	8

DDR

DDR/DiaGroupRule

This table contains dialer-group rule information.

XML structure

```
<DDR>
  <DiaGroupRule>
    <GroupRule>
      <GroupNumber></GroupNumber>
      <IpProtocol></IpProtocol>
      <IpPermit></IpPermit>
      <AclNum></AclNum>
      <AclName></AclName>
    </GroupRule>
  </DiaGroupRule>
</DDR>
```

Table description

Item	Description
Feature name	DDR
Table name	DiaGroupRule
Table type	Multi-instance table
Row name	GroupRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
GroupNumber	Dialer-group rule group-number	Index	Unsigned integer. Value range: 1 to 255
IpProtocol	Dialer-group rule ip protocol	Index	Enumeration: <ul style="list-style-type: none">• 0—IPv4 protocol• 1—IPv6 protocol
IpPermit	Denies or permits packets of the specified protocol	N/A	Boolean: <ul style="list-style-type: none">• false• true

Column name	Column description	Column type	Data type and restrictions
AclNum	Specifies an ACL by its number	N/A	Unsigned integer. Value range: 2000 to 3999
AclName	Specifies an ACL by its name	N/A	String, case insensitive. Length: 1 to 63 characters.

DDR/DiaBundle

This table contains the dialer bundle enable of DDR information.

XML structure

```

<DDR>
  <Bundle>
    <DiaBundle>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </DiaBundle>
  </Bundle>
</DDR>

```

Table description

Item	Description
Feature name	DDR
Table name	Bundle
Table type	Multi-instance table
Row name	DiaBundle
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

Column name	Column description	Column type	Data type and restrictions	Remarks
				IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Enable	Before using bundle DDR, use it to enable bundle DDR on a dialer interface.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	N/A

DDR/IfDiaGroup

This table contains the dialer group of DDR information.

XML structure

```

<DDR>
  <IfDiaGroup>
    <DiaGroup>
      <IfIndex></IfIndex>
      <Num></Num>
    </DiaGroup>
  </IfDiaGroup>
</DDR>

```

Table description

Item	Description
Feature name	DDR
Table name	IfDiaGroup
Table type	Multi-instance table
Row name	DiaGroup
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

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 "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Num	Specifies a dialer group by its number in the range of 1 to 255. Before the assignment, you must create the dialer group.	N/A	Unsigned integer. Value range: 1 to 255.	N/A

DDR/DDRAutodial

This table contains the information about using **dialer timer autodial** to set the auto-dial timer.

XML structure

```

<DDR>
  <DDRAutodial>
    <Autodial>
      <IfIndex></IfIndex>
      <Time></Time>
    </Autodial>
  </DDRAutodial>
</DDR>

```

Table description

Item	Description
Feature name	DDR
Table name	DDRAutodial
Table type	Multi-instance table
Row name	Autodial
Restrictions	This table supports interface types: am interface bri interface/subinterface asy interface

aux interface
serial interface
dialer interface
ethchannel interface

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.
Time	Time of uto-dial.	N/A	Unsigned integer. Value range: 1 to 604800.	N/A

DDR/DDRIdle

This table contains the information about using **dialer timer idle** to set the link idle-timeout timer.

XML structure

```

<DDR>
  <DDRIdle>
    <Idle>
      <IfIndex></IfIndex>
      <Time></Time>
      <Direct></Direct>
    </Idle>
  </DDRIdle>
</DDR>

```

Table description

Item	Description
Feature name	DDR
Table name	DDRIdle

Table type	Multi-instance table
Row name	Idle
Restrictions	<p>This table supports interface types:</p> <p>am interface</p> <p>bri interface/subinterface</p> <p>asy interface</p> <p>aux interface</p> <p>serial interface</p> <p>dialer interface</p> <p>ethchannel interface</p>

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.
Time	link idle-timeout timer	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Direct	Direct of interesting packets timer	N/A	Unsigned integer. <ul style="list-style-type: none"> 1—OUT. 2—IN. 3—INOUT. 	N/A

DDR/DDRCircularEnable

This table contains the information about using dialer circular enable to enable traditional DDR on a dialup interface.

XML structure

```

<DDR>
  <DDRCircularEnable>
    <CircularEnable>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </CircularEnable>
  </DDRCircularEnable>
</DDR>

```



```

    </CircularEnable>
  </DDRCircularEnable>
</DDR>

```

Table description

Item	Description
Feature name	DDR
Table name	DDRCircularEnable
Table type	Multi-instance table
Row name	CircularEnable
Restrictions	This table supports interface types: Dialup interface

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	Before using traditional DDR, use it to enable traditional DDR on the dialup interface.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	N/A

DDR/DDRDialNumber

This table contains the information about using **dialer number** to configure a dial string for placing calls to a single remote site.

XML structure

```

<DDR>
  <DDRDialNumber>
    <DialNumber>

```



```

    <IfIndex></IfIndex>
    <Num></Num>
    <AutoDial></AutoDial>
  </DialNumber>
</DDRdialNumber>
</DDR>

```

Table description

Item	Description
Feature name	DDR
Table name	DDRdialNumber
Table type	Multi-instance table
Row name	DialNumber
Restrictions	This table supports interface types: Dialup interface

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.
Num	A dial string for calling a remote site	N/A	String, case-insensitive. Length: 1 to 30 characters.	N/A
AutoDial	Automatically dial the remote site	N/A	Unsigned integer. <ul style="list-style-type: none"> 0—NOTAUTO 1—AUTO. 	N/A

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Comware 7 DDR NETCONF XML API Error Message Reference

DDR/DDR DialNumber

Message	Explanation
The configuration doesn't meet the requirements.	The configuration parameter is incomplete.
Enable DDR first.	This message means DDR not be configured.

DDR/DiaGroupRule

Message	Explanation
The configuration doesn't meet the requirements.	The configuration parameter is incomplete.
Invalid Acl Name.	Invalid Acl Name.

DDR/DDR Autodial

Message	Explanation
Enable DDR first.	This message means DDR not be configured.

DDR/DDR Idle

Message	Explanation
Enable DDR first.	This message means DDR not be configured.

DDR/IfDiaGroup

Message	Explanation
Enable DDR first.	This message means DDR not be configured.

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 - Columns 2

Device

Device/Base

This table contains device information.

XML structure

```
<Device>
  <Base>
    <LocalTime></LocalTime>
    <RestoreFactoryDefault/>
  </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.
RestoreFactoryDefault	Restore the factory-default configuration for the device.	This column must be empty.

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>

```

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.

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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: <ul style="list-style-type: none">Protocol.MDCID.	This data structure is supported only on the default MDC.
Protocol	Time protocol	N/A	Enumeration:	Required.

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—None. 3—NTP. 4—PTP. 	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: <ul style="list-style-type: none"> Zone. ZoneName. 	N/A
Zone	Time zone	N/A	String. Use one of the following formats: <ul style="list-style-type: none"> Z for the UTC. +HH:MM:SS for east time zone. -HH:MM:SS for west time zone. Value ranges: <ul style="list-style-type: none"> 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	<p>Group DateBased and WeekBased are two configuration ways.</p> <p>Only one way can take effect at the same time.</p> <p>All the members of one group should be included when tack configuration action.</p> <p>New configuration will replace the existing one.</p>
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.
DateBased	Daylight saving time	Data Structure	Members include: • BeginMonth	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	configuration based on date.		<ul style="list-style-type: none"> • BeginDay • BeginHour • BeginMinute • BeginSecond • EndMonth • EndDay • EndHour • EndMinute • EndSecond 	
BeginMonth	Begin month.	N/A	Unsigned integer. Value range: 1 to 12.	N/A
BeginDay	Begin day.	N/A	Unsigned integer. <ul style="list-style-type: none"> • Value range: 1 to 31. 	N/A
BeginHour	Begin hour.	N/A	Unsigned integer. <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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

Column name	Column description	Column type	Data type and restrictions	Remarks
BeginWeek	Begin week of the month.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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/FailoverGroups

This table contains failover group information.

XML structure

```
<Device>
  <FailoverGroups>
    <FailoverGroup>
      <ID></ID>
      <Name></Name>
      <PrimaryNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </PrimaryNode>
      <SecondaryNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </SecondaryNode>
    </FailoverGroup>
  </FailoverGroups>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	FailoverGroups
Table type	Multi-instance table
Row name	FailoverGroup
Restrictions	N/A
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ID	Failover group id	index	Unsigned integer. Value range: 0 to 31.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Failover group name	N/A	String. Length: 1 to 63 characters.	N/A
PrimaryNode	Primary node of the failover group.	Data structure	Members include: <ul style="list-style-type: none"> Chassis Slot CPUID 	N/A
Chassis	Chassis ID of the failover group primary node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the failover group primary node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of the failover group primary node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SecondaryNode	Secondary node of the failover group.	Data structure	Members include: <ul style="list-style-type: none"> Chassis Slot CPUID 	N/A
Chassis	Chassis ID of the failover group secondary node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the failover group secondary node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID of the failover group secondary node.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Device/TemperatureSensors

This table contains temperature sensor alarm settings.

XML structure

```

<Device>
  <TemperatureSensors>
    <Sensor>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <SensorType></SensorType>
      <SensorIndex></SensorIndex>
      <LowerLimit></LowerLimit>
      <WarningLimit></WarningLimit>
      <AlarmLimit></AlarmLimit>
    </Sensor>
  
```



```

    </TemperatureSensors>
</Device>

```

Table description

Item	Description
Feature name	Device
Table name	TemperatureSensors
Table type	Multi-instance table
Row name	Sensor
Restrictions	None
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 short. 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
SensorType	Type of the temperature sensor	Index	Enumeration: <ul style="list-style-type: none"> 0-Inflow 1-Outflow 2- Hotspot 	N/A
SensorIndex	Resource ID of the temperature sensor.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
LowerLimit	Low-temperature threshold in Celsius degrees	N/A	Short	The specific range is different according to the equipment, and the beyond range can not be set

Column name	Column description	Column type	Data type and restrictions	Remarks
WarningLimit	High-temperature warning threshold in Celsius degrees	N/A	Short	The specific range is different according to the equipment, and the beyond range can not be set
AlarmLimit	High-temperature alarming threshold in Celsius degrees	N/A	Short	The specific range is different according to the equipment, and the beyond range can not be set

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Device/SystemStableStatus	33
XML structure.....	33
Table description.....	33
Columns.....	33
Device/BoardStableStatus	33
XML structure.....	33
Table description.....	34
Columns.....	34

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: <ul style="list-style-type: none"> Protocol. MDCID. 	This data structure is supported only on the default MDC.
Protocol	Time protocol	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Zone. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> ZoneName. 	
Zone	Time zone.	N/A	String. Use one of the following formats: <ul style="list-style-type: none"> Z for the UTC. +HH:MM:SS for east time zone. -HH:MM:SS for west time zone. Value ranges: <ul style="list-style-type: none"> 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: 0 to 65535.	If there is no chassis number, return 0.
Slot	Slot number of the entity	N/A	Unsigned integer. Value range: 0 to 65535.	If there is no slot number, return 65535.
SubSlot	Subslot number of the entity	N/A	Unsigned integer. Value range: 0 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. <ul style="list-style-type: none"> • 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
			<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1-Unsupported. 2-Disabled. 3-Shut down. 4-Enabled.
OperState	Operation status	N/A	Enumeration: <ul style="list-style-type: none"> 1-Unsupported. 2-Unusable. 3-Usable. 4-Dangerous, cannot be used.
StandbyState	Standby status	N/A	Enumeration: <ul style="list-style-type: none"> 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 (%)	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: <ul style="list-style-type: none"> • 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>
```



```

    <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 ($^{\circ}\text{C}$)	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: <ul style="list-style-type: none"> HH:MM:SS 	Value ranges: <ul style="list-style-type: none"> HH-0 to 23. MM-0 to 59. SS-0 to 59.
DateBased	Daylight saving time configuration based on date.	Data Structure	Members include: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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
			<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
  <BelongtoCurMDC></BelongtoCurMDC>
</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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1-Absent 2-Normal 3-Fault 	N/A
Role	Role of the device node.	N/A	Enumeration: <ul style="list-style-type: none"> 1-Unknown 2-ActiveMPU 3-StandbyMPU 	Role is Unknown when status is Absent or Fault.

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 4-LPU 	
BelongtoCurMDC	Whether the device node belongs to the current MDC	N/A	Boolean: <ul style="list-style-type: none"> true false 	An MPU belongs to all MDCs. If you reclaim an LPU from the default MDC, the LPU does not belong to the default MDC.

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: <ul style="list-style-type: none"> Chassis Slot CPUID

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 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: <ul style="list-style-type: none">ChassisSlotCPUID
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 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.

Device/FailoverGroupCapabilities

This table contains capabilities of failover group.

XML structure

```
<Device>
  <FailoverGroupCapabilities>
    <FailoverGroupSupport></FailoverGroupSupport>
  </FailoverGroupCapabilities>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	FailoverGroupCapabilities
Table type	Single -instance table
Row name	N/A
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
FailoverGroupSupport	Is support failover group.	N/A	Boolean: <ul style="list-style-type: none">• true• false

Device/FailoverGroups

This table contains failover group information.

XML structure

```
<Device>
  <FailoverGroups>
    <FailoverGroup>
      <ID></ID>
      <Name></Name>
      <PrimaryNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </PrimaryNode>
      <SecondaryNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </SecondaryNode>
    </FailoverGroup>
  </FailoverGroups>
</Device>
```



```

    </SecondaryNode>
    <State></State>
  </FailoverGroup>
</FailoverGroups>
</Device>

```

Table description

Item	Description
Feature name	Device
Table name	FailoverGroups
Table type	Multi-instance table
Row name	FailoverGroup
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
ID	Failover group id	index	Unsigned integer. Value range: 0 to 31.
Name	Failover group name	N/A	String. Length: 1 to 63 characters.
PrimaryNode	Primary node of the failover group.	Data structure	Members include: <ul style="list-style-type: none"> Chassis Slot CPUID
Chassis	Chassis ID of the failover group primary node.	N/A	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the failover group primary node.	N/A	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID of the failover group primary node.	N/A	Unsigned integer. Value range: 0 to 65535.
SecondaryNode	Secondary node of the failover group.	Data structure	Members include: <ul style="list-style-type: none"> Chassis Slot CPUID
Chassis	Chassis ID of the failover group secondary node.	N/A	Unsigned integer. Value range: 0 to 65535.
Slot	Slot ID of the failover group secondary node.	N/A	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID of the failover	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	group secondary node.		Value range: 0 to 65535.
State	State of the failover group.	N/A	Enumeration: <ul style="list-style-type: none"> 1-Initial 2-Primary 3-Secondary

Device/Subcards

This table contains subcard information.

XML structure

```

<Device>
  <Subcards>
    <Subcard>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <SubSlot></SubSlot>
      <PhysicalIndex></PhysicalIndex>
      <Status></Status>
    </Subcard>
  </Subcards>
</Device>

```

Table description

Item	Description
Feature name	Device
Table name	Subcards
Table type	Multi-instance table
Row name	Subcard
Restrictions	N/A

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 device node.	Index	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Column type	Data type and restrictions
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.
SubSlot	Subslot number of the entity	Index	Unsigned integer. Value range: 0 to 65535.
PhysicalIndex	Physical index of the subslot	N/A	Unsigned integer. Value range: 0 to 65535.
Status	Status of the subcard	N/A	Enumeration: <ul style="list-style-type: none"> SubcardRemoved-The subcard has been removed. SubcardNormal-The subcard is operating correctly. SubcardFault-The subcard is fault.

Device/TemperatureSensors

This table contains the temperature sensor information.

XML structure

```

<Device>
  <TemperatureSensors>
    <Sensor>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <SensorType></SensorType>
      <SensorIndex></SensorIndex>
      <SensorStatus></SensorStatus>
      <CurrentTemperature></CurrentTemperature>
      <LowerLimit></LowerLimit >
      <WarningLimit></WarningLimit >
      <AlarmLimit></AlarmLimit>
      <ShutdownLimit></ShutdownLimit>
    </Sensor>
  </TemperatureSensors>
</Device>

```

Table description

Item	Description
Feature name	Device

Table name	TemperatureSensors
Table type	Multi-instance table
Row name	Sensor
Restrictions	N/A

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 device node.	Index	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.
SensorType	Type of the temperature sensor.	Index	Enumeration: <ul style="list-style-type: none"> 0-inflow 1-outflow 2-Hotspot
SensorIndex	Resource ID of the temperature sensor.	Index	Unsigned integer. Value range: 0 to 65535.
SensorStatus	Status of the temperature sensor	N/A	Enumeration: <ul style="list-style-type: none"> TemperatureNormal-The temperature is normal. TemperatureLower-The temperature dropped to or below the low-temperature threshold. TemperatureWarning-The temperature increased to or above the high-temperature warning threshold. TemperatureAlarm-The temperature increased to or above the high-temperature alarming threshold. TemperatureShutdown-The temperature increased to or above the high-temperature shutdown threshold.
CurrentTemperature	Current Temperature(°C)	N/A	Short
LowerLimit	Lower Limit Temperature(°C)	N/A	Short
WarningLimit	Warning Limit Temperature(°C)	N/A	Short
AlarmLimit	Alarm Limit Temperature(°C)	N/A	Short
ShutdownLimit	Shutdown Limit Temperature(°C)	N/A	Short

Device/SystemStableStatus

This table contains system stability and status information.

XML structure

```
<Device>
  <SystemStableStatus>
    <SystemStatus></SystemStatus>
    <Redundancy></Redundancy>
  </SystemStableStatus>
</Device>
```

Table description

Item	Description
Feature name	Device
Table name	SystemStableStatus
Table type	Single-instance table
Row name	N/A
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions
SystemStatus	System status	N/A	Enumeration: <ul style="list-style-type: none">StableNot ready
Redundancy	System redundancy status	N/A	Enumeration: <ul style="list-style-type: none">StableNo redundancyNot ready

Device/BoardStableStatus

This table contains stability and status information for cards or member devices

XML structure

```
<Device>
  <BoardStableStatus>
    <StableStatus>
      <Chassis></Chassis>
      <Slot></Slot>
    </StableStatus>
  </BoardStableStatus>
</Device>
```



```

    <CPU></CPU>
    <Role></Role>
    <Status></Status>
  </StableStatus>
</BoardStableStatus>
</Device>

```

Table description

Item	Description
Feature name	Device
Table name	BoardStableStatus
Table type	Multi-instance table
Row name	StableStatus
Restrictions	N/A

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 number of the device node	Index	Unsigned integer. Value range: 0 to 65535.
CPU	ID of the CPU.	Index	Unsigned integer. Value range: 0 to 65535.
Role	Role of the card or member device	N/A	Enumeration: <ul style="list-style-type: none"> Active Standby Other
Status	Status of the card or member device	N/A	Enumeration: <ul style="list-style-type: none"> Stable Board inserted Kernel initiating Service starting Service stopping HA Batch backup Interface data batch backup MDC starting MDC stopping Context starting Context stopping

Contents

Device1

 Device/summer time1

 Device/ failovergroup1

 Device/ transceiver.....2

Device

Device/summer time

Message	Explanation
Unsupported parameter.	When modify the time protocol by netconf, check the parameters are not supported.
Incomplete parameter.	When modify the time protocol by netconf, check the parameters are incomplete.
Please set clock protocol manual mode first.	If it's not allowed to set system time, please set clock protocol manual mode first.
End time must be later than start time, and the time range determined can't be shorter than one day or longer than one year.	The prompt when failed to set summer time.
Please choose either datebased or weekbased to configure the summertime.	When setting summer time, date and week can only choose one, if both of them are not 0 , this prompt will be printed.
The device does not support PTP.	When setting time source with PTP protocol, but the device doesn't support PTP, this prompt will be printed.
Invalid date.	Setting summer time with begin time and end time, if check out that the begin time or the end time are not allowed, this prompt will be printed.

Device/ failovergroup

Message	Explanation
Failed to create the failover group.	The prompt when failed to create the failover group.
Number of failover groups exceeded the limit.	The prompt when the number of failover groups exceeded the limit.
This member has been configured as the primary member for another failover group. Please specify another member.	When operate a member, if this member has been configured as the primary member for another failover group, this prompt will be printed.
This member has been added with a different attribute to the group. To change the attribute, remove the member and add the member with the new attribute.	When configuring attribute to a member, if this member has been added with a different attribute to the group, this prompt will be printed.
The attribute has been configured for another member in this failover group.	When configuring attribute to a member, if this attribute has been added to a different member of the group, this prompt will be printed.
Main and Standby conflict.	
Operation failed.	When operate the failover group failed, and the reason is not clear, this prompt will be printed by default.
The failovergroup name and ID must identify the same failovergroup.	When the name and ID is not matched to the failovergroup, this prompt will be printed.
Invalid failovergroup ID or Name.	When the name and ID is invalid, this prompt will be printed.

Device/ transceiver

The transceiver is absent.	When failed to set ITU channel num to the driver, the reason is the transceiver is absent.
The transceiver does not support this function.	When failed to set ITU channel num to the driver, the reason is the transceiver does not support this function.
The port has no transceiver information.	When failed to set ITU channel num to the driver, the reason is the port has no transceiver information.
Operation failed.	When failed to set ITU channel num to the driver, and the reason does not given, this prompt will be printed by default.

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Device event stream

BoardEvent event

This event is used to report card or member device alarm information.

XML structure for event subscription

```
<BoardEvent>
  <Board>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  </Board>
</BoardEvent>
```

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>Device</stream>
    <filter type="subtree">
      <BoardEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
        <Board>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
        </Board>
      </BoardEvent >
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Device
Event name	BoardEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Device: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	Unsigned integer. Value range: 0 to	No

Column name	Column description	Data type and restrictions	Support for extended queries
	resides	65535.	
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.	No
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```

<BoardEvent>
  <Board>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <PhysicalIndex></PhysicalIndex>
    <BoardStatus></BoardStatus>
  </Board>
</BoardEvent>

```

Example:

```

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <BoardEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
    <Board>
      <Chassis>0</Chassis>
      <Slot>0</Slot>
      <CPUID>0</CPUID>
      <PhysicalIndex>100</PhysicalIndex>
      <BoardStatus>BoardNormal</BoardStatus>
    </Board>
  </BoardEvent>
</notification>

```

Columns

Column name	Column description	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.
PhysicalIndex	Entity index.	Unsigned integer.

Column name	Column description	Data type and restrictions
		Value range: 0 to 65535.
BoardStatus	Status of the card	Enumeration: <ul style="list-style-type: none"> BoardRemoved-The card has been removed. BoardNormal-The card is operating correctly. BoardFault-The card is faulty.

SubcardEvent event

This event is used to report subcard alarm information.

XML structure for event subscription

```
<SubcardEvent>
  <Subcard>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <SubSlot></SubSlot>
  </Subcard>
</SubcardEvent>
```

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>Device</stream>
    <filter type="subtree">
      <SubcardEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
        <Subcard>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
          <SubSlot>1</SubSlot>
        </Subcard>
      </SubcardEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Device
Event name	SubcardEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Device:1.0

Item	Description
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
SubSlot	Subslot number of the entity	Unsigned integer. Value range: 0 to 65535.	No
CPUID	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```

<SubcardEvent>
  <Subcard>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <SubSlot></SubSlot>
    <PhysicalIndex></PhysicalIndex>
    <SubcardStatus></SubcardStatus>
  </Subcard>
</SubcardEvent>

```

Example:

```

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <SubcardEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
    <Subcard>
      <Chassis>0</Chassis>
      <Slot>0</Slot>
      <CPUID>0</CPUID>
      <SubSlot>1</SubSlot>
      <PhysicalIndex>100</PhysicalIndex>
      <SubcardStatus>SubcardRemoved</SubcardStatus>
    </Subcard>
  </SubcardEvent>
</notification>

```


Columns

Column name	Column description	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.
SubSlot	Subslot number of the entity	Unsigned integer. Value range: 0 to 65535.
PhysicalIndex	Entity index.	Unsigned integer. Value range: 0 to 65535.
SubcardStatus	Status of the subcard	Enumeration: <ul style="list-style-type: none">SubcardRemoved-The subcard has been removed.SubcardNormal-The subcard is operating correctly.SubcardFault-The subcard is fault.

TemperatureEvent event

This event is used to report temperature alarm information.

XML structure for event subscription

```
<TemperatureEvent>
  <Temperature>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  </Temperature>
</TemperatureEvent>
```

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>Device</stream>
    <filter type="subtree">
      <TemperatureEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
        <Temperature>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
        </Temperature>
      </TemperatureEvent>
    </filter>
  </create-subscription>
</rpc>
```



```

    </TemperatureEvent>
  </filter>
</create-subscription>
</rpc>

```

Table description

Item	Description
Event stream name	Device
Event name	TemperatureEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Device: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	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```

<TemperatureEvent>
  <Temperature>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <PhysicalIndex></PhysicalIndex>
    <SensorType></SensorType>
    <Status></Status>
    <CurrentTemperature></CurrentTemperature>
    <LowerLimitTemperature></LowerLimitTemperature>
    <WarningLimitTemperature></WarningLimitTemperature>
    <AlarmLimitTemperature></AlarmLimitTemperature>
    <ShutdownLimitTemperature></ShutdownLimitTemperature>
  </Temperature>
</TemperatureEvent>

```

Example:

```

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <TemperatureEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
    <Temperature>

```



```

<Chassis>0</Chassis>
<Slot>0</Slot>
<CPUID>0</CPUID>
<PhysicalIndex>100</PhysicalIndex>
<SensorType>Hotspot</SensorType>
<Status>TemperatureWarning</Status>
<CurrentTemperature>73</CurrentTemperature>
<LowerLimitTemperature>0</LowerLimitTemperature>
<WarningLimitTemperature>65</WarningLimitTemperature>
<AlarmLimitTemperature>75</AlarmLimitTemperature>
<ShutdownLimitTemperature>90</ShutdownLimitTemperature>
</Temperature>
</TemperatureEvent>
</notification>

```

Columns

Column name	Column description	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.
PhysicalIndex	Physical index of the temperature sensor	Unsigned integer. Value range: 0 to 65535.
SensorType	Type of the temperature sensor	Enumeration: <ul style="list-style-type: none"> inflow outflow Hotspot
Status	Status of the temperature sensor	Enumeration: <ul style="list-style-type: none"> TemperatureNormal-The temperature is normal. TemperatureLower-The temperature dropped to or below the low-temperature threshold. TemperatureWarning-The temperature increased to or above the high-temperature warning threshold. TemperatureAlarm-The temperature increased to or above the high-temperature alarming threshold. TemperatureShutdown-The temperature increased to or above the high-temperature shutdown threshold
CurrentTemperature	Current Temperature(°C)	Short
LowerLimitTemperature	Lower Limit Temperature(°C)	Short
WarningLimitTemperature	Warning Limit Temperature(°C)	Short

Column name	Column description	Data type and restrictions
AlarmLimitTemperature	Alarm Limit Temperature(°C)	Short
ShutdownLimitTemperature	Shutdown Limit Temperature(°C)	Short

SystemStableStatusEvent event

This event is used to report system stability and status information.

XML structure for event subscription

```
<SystemStableStatusEvent>
</SystemStableStatusEvent>
```

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>Device</stream>
    <filter type="subtree">
      <SystemStableStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
        </SystemStableStatusEvent>
      </filter>
    </create-subscription>
  </rpc>
```

Table description

Item	Description
Event stream name	Device
Event name	SystemStableStatusEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Device:1.0
Support for extended query	No

Columns

None

XML structure for event report

```
<SystemStableStatusEvent>
  <SystemStatus></SystemStatus>
  <Redundancy></Redundancy>
</SystemStableStatusEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
```



```

<SystemStableStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
  <SystemStatus>Stable</SystemStatus>
  <Redundancy>Stable</Redundancy>
</SystemStableStatusEvent>
</notification>

```

Columns

Column name	Column description	Data type and restrictions
SystemStatus	System stable status	Enumeration: <ul style="list-style-type: none"> Stable Not ready
Redundancy	Status of active/standby	Enumeration: <ul style="list-style-type: none"> Stable No redundancy Not ready

BoardStableStatusEvent event

This event is used to report card stability and status information.

XML structure for event subscription

```

<BoardStableStatusEvent>
  <BoardStableStatus>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  </BoardStableStatus>
</BoardStableStatusEvent>

```

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>Device</stream>
    <filter type="subtree">
      <BoardStableStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
        <BoardStableStatus>
          <Chassis></Chassis>
          <Slot></Slot>
          <CPUID></CPUID>
        </BoardStableStatus>
      </BoardStableStatusEvent>
    </filter>
  </create-subscription>
</rpc>

```


Table description

Item	Description
Event stream name	Device
Event name	BoardStableStatusEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/Device: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	ID of the CPU.	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```
<BoardStableStatusEvent>
  <BoardStableStatus>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Role></Role>
    <Status></Status>
  </BoardStableStatus>
</BoardStableStatusEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <BoardStableStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/Device:1.0">
    <BoardStableStatus>
      <Chassis>1</Chassis>
      <Slot>1</Slot>
      <CPUID>0</CPUID>
      <Role>Standby</Role>
      <Status>Stable</Status>
    </BoardStableStatus>
  </BoardStableStatusEvent>
</notification>
```


Columns

Column name	Column description	Data type and restrictions
Chassis	Member ID of the member device where the entity resides	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node	Unsigned integer. Value range: 0 to 65535.
CPUID	ID of the CPU	Unsigned integer. Value range: 0 to 65535.
Role	Role of the board	Enumeration: <ul style="list-style-type: none"> • Active • Standby • Other
Status	Status of the board	Enumeration: <ul style="list-style-type: none"> • Stable • Board inserted • Kernel initiating • Service starting • Service stopping • HA Batch backup • Interface data batch backup • MDC starting • MDC stopping • Context starting • Context stopping • Removed(Stable)

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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>

</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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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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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
Columns	5
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>
```



```

        </v:address-pools>
    </config>
</edit-config>
</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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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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XML structure	19
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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: <ul style="list-style-type: none"> • 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	<p>Enumeration:</p> <ul style="list-style-type: none"> • 1—b-node. • 2—p-node. • 3—m-node. • 4—h-node. 	<p>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.</p> <p>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.</p> <p>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> <p>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.</p>
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: <ul style="list-style-type: none"> 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.	<p>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.</p> <p>Can not be configured together with HAddress, HType column, but one of the CID and HAddress is required.</p> <p>Can not modify bindings. To change the binding for a DHCP</p>

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false(default) 	N/A
ServerConfig	The configuration of DHCP server	Data structure	Members include: <ul style="list-style-type: none"> AlwaysBroadcastAlert IgnoreBOOTP BOOTPReplyRFC1048 Opt82Enabled PingNumber PingTimeout 	N/A
AlwaysBroadcast	Whether enable the DHCP server	N/A	Boolean: <ul style="list-style-type: none"> true 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	to broadcast all responses or not.		<ul style="list-style-type: none"> false(default) 	
IgnoreBOOTP	Whether ignore BOOTP requests or not.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false(default) 	N/A
Opt82Enabled	Whether enable the DHCP server to handle Option 82 or not.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> UserInfoRecord UserInfoRefresh UserInfoFlushTime 	N/A
UserInfoRecord	Whether the function of recording client	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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/DHCPRelaySourceAddress

This table contains information about source IP addresses of the packets sent by the DHCP relay agent.

XML structure

```
<DHCP>
  <DHCPRelaySourceAddress>
    <RelaySrcAddr>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
    </RelaySrcAddr>
  </DHCPRelaySourceAddress>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelaySourceAddress
Table type	Multi-instance table
Row name	RelaySrcAddr
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: <ul style="list-style-type: none"> 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.

DHCP/DHCPRelayDiscReqFromTnlEnable

This table contains information about whether the DHCP relay discard request from tunnel.

XML structure

```
<DHCP>
  <DHCPRelayDiscReqFromTnlEnable>
    <RelayDiscardReqFromTnlEnable>
      <IfIndex></IfIndex>
      <DiscardReqFromTnlEnable></DiscardReqFromTnlEnable>
    </RelayDiscardReqFromTnlEnable>
  </DHCPRelayDiscReqFromTnlEnable>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayDiscReqFromTnlEnable
Table type	Multi-instance table
Row name	RelayDiscardReqFromTnlEnable
Restrictions	This table supports only interface of VSI type
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> .
DiscardReqFromTnlEnable	Whether the DHCP relay agent support discard	N/A	Boolean: <ul style="list-style-type: none">truefalse (default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	request packet from tunnel .			

DHCP/DHCPRelayMacFowardEnable

This table contains information about whether the DHCP Relay support forward ACK or OFFER packet by Mac Address

XML structure

```

<DHCP>
  <DHCPRelayMacFowardEnable>
    <RelayMacForwardEnable>
      <MacEnable></MacEnable>
      <MacBroadCast></MacBroadCast>
    </RelayMacForwardEnable>
  </DHCPRelayMacFowardEnable>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayMacFowardEnable
Table type	Multi-instance table
Row name	RelayMacForwardEnable
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
MacEnable	Whether enable mac forward	N/A	Boolean: <ul style="list-style-type: none"> true 	If mac forward is enable, DHCP server OFFER or ACK packet will forward

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> false (default) 	via unicast.
MacBroadCast	Whether enable mac broadcast		Boolean: <ul style="list-style-type: none"> true false (default) 	It must configured with MacEnable and Mac Enable must be true.

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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 1—b-node. • 2—p-node. • 3—m-node. • 4—h-node. 	<p>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.</p> <p>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.</p> <p>m-node: Specifies the mixed node. An m-node client broadcasts the destination name. If it does not receive a</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>response, the m-node client unicasts the destination name to the WINS server to get the mapping.</p> <p>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.</p>
NbnsIpv4Address	WINS server addresses	N/A	<p>String, case insensitive.</p> <p>Length: 1 to 127 characters.</p>	<p>You can specify a space-separated list of up to eight addresses.</p> <p>Example:</p> <p>1.1.1.1 2.2.2.2 3.3.3.3.</p>

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
				<p>DHCP-OFFER packet to the client.</p> <p>staticCommitted: A committed static binding whose IP address has been assigned to the DHCP client.</p> <p>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.</p> <p>autoCommitted: A committed dynamic binding whose IP address has been dynamically assigned to the DHCP client.</p>
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: <ul style="list-style-type: none"> true false 	N/A
ServerConfig	The configuration of DHCP server	Data structure	Members include: <ul style="list-style-type: none"> AlwaysBroadcast Alert IgnoreBOOTP BOOTPReplyRFC 1048 Opt82Enabled PingNumber PingTimeout 	N/A
AlwaysBroadcast	Whether Enable the DHCP server to broadcast all	N/A	Boolean: <ul style="list-style-type: none"> true 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	responses or not.		<ul style="list-style-type: none"> false 	
IgnoreBOOTP	Whether Ignore BOOTP requests or not.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false 	N/A
Opt82Enabled	Whether enable the DHCP server to handle Option 82 or not.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> UserInfoRecord UserInfoRefresh UserInfoFlushTime 	N/A
UserInfoRecord	Whether the function of recording client information in relay entries is enabled.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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
TotallpNumber	Total number of IP addresses in the address pool	N/A	Unsigned integer.	N/A

DHCP/DHCPRelaySourceAddress

This table contains information about source IP addresses of the packets sent by the DHCP relay agent.

XML structure

```
<DHCP>
  <DHCPRelaySourceAddress>
    <RelaySrcAddr>
      <IfIndex></IfIndex>
      <Ipv4Address></Ipv4Address>
    </RelaySrcAddr>
  </DHCPRelaySourceAddress>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelaySourceAddress
Table type	Multi-instance table
Row name	RelaySrcAddr
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
DPAddress	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
TotallpNumber	Total Number of allocated IP addresses in subnet	N/A	Unsigned integer.	N/A
PoolName	Subnet-alloc Pool Name	N/A	String.	N/A

DHCP/DHCPRelayDiscReqFromTnlEnable

This table contains information about whether the DHCP relay discard request from tunnel.

XML structure

```
<DHCP>
  <DHCPRelayDiscReqFromTnlEnable>
    <RelayDiscardReqFromTnlEnable>
```



```

    <IfIndex></IfIndex>
    <DiscardReqFromTnlEnable></DiscardReqFromTnlEnable>
  </RelayDiscardReqFromTnlEnable>
</DHCPRelayDiscReqFromTnlEnable>
</DHCP>

```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayDiscReqFromTnlEnable
Table type	Multi-instance table
Row name	RelayDiscardReqFromTnlEnable
Restrictions	This table supports only interface of VSI type

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> .
DiscardReqFromTnlEnable	Whether the DHCP relay agent support discard request packet from tunnel .	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A

DHCP/DHCPRelayMacFowardEnable

This table contains information about whether the DHCP Relay support forward ACK or OFFER packet by Mac Address.

XML structure

```
<DHCP>
  <DHCPRelayMacFowardEnable>
    <RelayMacForwardEnable>
      <MacEnable></MacEnable>
      <MacBroadCast></MacBroadCast>
    </RelayMacForwardEnable>
  </DHCPRelayMacFowardEnable>
</DHCP>
```

Table description

Item	Description
Feature name	DHCP
Table name	DHCPRelayMacFowardEnable
Table type	Multi-instance table
Row name	RelayMacForwardEnable
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
MacEnable	Whether enable mac forward	N/A	Boolean: <ul style="list-style-type: none">truefalse	If mac forward is enable, DHCP server OFFER or ACK packet will forward via unicast.
MacBroadCast	Whether enable mac broadcast		Boolean: <ul style="list-style-type: none">truefalse	It must configured with MacEnable and Mac Enable must be true.

Contents

DHCP1

 DHCP/dhcp1

DHCP

DHCP/dhcp

Message	Explanation
Maximum number of DHCP address pools already reached. DHCP地址池个数超过上限。	Maximum number of DHCP address pools already reached, when created more than 8192 pools before.
Invalid network address. 无效的网段地址。	Invalid network address, please check your network address.
Mask length must be in the range of 1 to 30. 掩码长度范围必须为1到30。	The mask length is Invalid.
Invalid start IP address. 无效的起始IP地址。	Invalid start IP address, please check your IP address.
Invalid end IP address. 无效的结束IP地址。	Invalid end IP address, please check your IP address.
The start IP address can't be greater than the end IP address. 起始IP地址必须小于或等于结束IP地址。	Please make certain that the start IP address is not be greater than the end IP address.
Lease duration can't be zero. IP地址租约有效期限不能为零。	Invalid Lease duration, please check your Lease duration.
Failed to set the response timeout time for ping requests. 为IP地址冲突检测指定等待回显响应超时时间失效。	The setting about the response timeout time for ping requests is failed.
Failed to enable DHCP. 开启DHCP功能失败。	DHCP process is not activated.
Invalid IP address. 无效的IP地址。	Invalid IP address, please check your IP address.
Invalid mask. 无效的掩码。	Invalid mask, please check your IP address.
Maximum number of statically bound IP address already reached. 静态绑定地址个数超过上限。	Maximum number of statically bound IP address already reached, when the number of statically bound IP address is greater than 8192.
The IP address is bound to another DHCP client. 该IP地址已经被绑定在一台DHCP客户端上。	The IP address is bound to another DHCP client, please try another IP address.
Failed to set the mode. 指定处理模式失败。	The setting about the mode is failed.
Failed to set the address pool name. 指定地址池名称失败。	The setting about the address pool name is failed.
Another address pool is using the name.	The name of address pool is already used.

地址池名称已经存在。	
The configuration doesn't meet the requirements. 不符合配置要求。	The configuration doesn't meet the requirements, please check your configuration.
Maximum number of server IP address already reached. 中继服务器IP地址个数超过上限。	Maximum number of server IP address already reached, when the number of server IP address is greater than 8.
The option is not configurable. 该DHCP选项的配置是被禁止的。	The option is not configurable, please check your option.
Invalid client ID. 无效的客户端ID。	Invalid client ID, please check your client ID.
The address pool doesn't exist. 该DHCP地址池不存在。	The address pool doesn't exist, when getting or deleting it
The subnet has already been configured. 该网段的IP地址已经在其他网段配置。	The subnet has already been configured, please try another subnet.
Invalid client hardware address. 无效的客户端硬件地址。	Invalid client hardware address, please check your client hardware address.
The statically bound IP address should be a unicast address. 该静态绑定IP地址需要是一个单播地址。	Please make certain that the statically bound IP address is a unicast address.
Not used. 未使用。	The lease is not used.
Failed to configure the Option 82. 配置Option82功能失败。	The configure the Option 82 is failed.

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Columns	4

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: <ul style="list-style-type: none">• 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

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: <ul style="list-style-type: none"> 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>
      <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: <ul style="list-style-type: none"> NetworkIpv6Address NetworkIpv6Prefix Length NetworkPreferLifetime NetworkValidLifetime 	N/A
NetworkIpv6Address	IPv6 address prefix	N/A	Hexadecimal string, colon-separated.	Modifying or removing the network configuration deletes the

Column name	Column description	Column type	Data type and restrictions	Remarks
				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.
NetworkExportRoute	Whether advertise the subnet assigned to IPv6 DHCP clients or not.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> StartIpv6Address EndIpv6Address RangePreferredLifetime 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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.
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.

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> 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
GatewayIpv6Addr	Gateway	N/A	String, case-insensitive.	Separated by space if

Column name	Column description	Column type	Data type and restrictions	Remarks
ess	addresses		Length: 1 to 367 characters.	there are multiple addresses. Specifies a space-separated list of up to eight addresses Example: 1::1 2::2.
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>
      <SIPIIPv6Address></SIPIIPv6Address>
      <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	N/A	String, case-insensitive.	Separated by space if

Column name	Column description	Column type	Data type and restrictions	Remarks
	addresses		Length: 1 to 367 characters.	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	Length of OptionValueHex must be an even number.

Column name	Column description	Column type	Data type and restrictions	Remarks
			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
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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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.

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: <ul style="list-style-type: none"> 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
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>
    </RelaySrvIPv6>
  </DHCP6RelaySrvAddress>
</DHCP6>

```



```

    <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 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	Index	Unsigned integer.	If a IPv6 DHCP server address is a link-local address, you must

Column name	Column description	Column type	Data type and restrictions	Remarks
	agent to forward packets to the IPv6 DHCP server			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
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: <ul style="list-style-type: none">Ipv6AddressIpv6PrefixLength	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

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
Mode	DHCPv6 mode	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true • false(default). 	N/A
ServerRapidCommit	Enable the rapid commit function.	N/A	Boolean: <ul style="list-style-type: none"> • true • false(default). 	N/A
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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				interface.
RelayInterfaceId Mode	IPv6 Interface-Id Option	N/A	Enumeration: <ul style="list-style-type: none"> 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. Lenth 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: <ul style="list-style-type: none"> NetworkIpv6Address NetworkIpv6PrefixLength NetworkPreferLifetime 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
NetworkPreferLifetime	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 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>
```



```

        <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false 	N/A
ServerRapidCommit	Enable the rapid commit function.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">Ipv6AddressIpv6PrefixLength
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: <ul style="list-style-type: none"> • 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.

Contents

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DHCP6/dhcp6

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The configuration doesn't meet the requirements, please check your configuration.
The URL for a file on the TFTP server can't include the username or password. 不要为一个TFTP文件的URL指定用户名和密码。	Please make certain that the URL for a file on the TFTP server is not include the username or password.
Invalid filename or URL. 无效的本地文件名或URL。	Invalid filename or URL, please check it.
The URL can't include the username or password. 不要在URL中携带用户名和密码信息。	Please make certain that the URL is include the username or password.
The system is saving DHCPv6 server entries to the backup file. Please wait.... 系统正在将DHCPv6服务器表项写入备份表项的文件中。请等待。	The system is saving DHCPv6 server entries to the backup file.
The system is downloading DHCPv6 server entries from the backup file. Please wait.... 系统正在从备份表项的文件中恢复DHCPv6服务器表项。请等待。	The system is downloading DHCPv6 server entries from the backup file.
The static binding already exists in another DHCPv6 address pool. 静态绑定表项已经在配置在其他DHCPv6地址池中。	The static binding already exists in another DHCPv6 address pool, please try another one.
For a non-temporary IPv6 address range, the preferred lifetime can't be longer than the valid lifetime. 配置非临时IPv6地址范围时，首选生命期要小于等于有效生命期。	Please make certain that for a non-temporary IPv6 address range, the preferred lifetime isn't longer than the valid lifetime.
For a temporary IPv6 address range, the preferred lifetime can't be longer than the valid lifetime. 配置临时IPv6地址范围时，首选生命期要小于等于有效生命期。	Please make certain that for a temporary IPv6 address range, the preferred lifetime isn't longer than the valid lifetime.
For an IPv6 subnet, the preferred lifetime can't be longer than the valid lifetime. 配置IPv6网段地址池时，首选生命期要小于等于有效生命期。	Please make certain that for an IPv6 subnet, the preferred lifetime isn't longer than the valid lifetime.
For a prefix pool, the preferred lifetime can't be longer than the valid lifetime. 配置引用前缀池时，首选生命期要小于等于有效生命期。	Please make certain that for a prefix pool, the preferred lifetime isn't longer than the valid lifetime.
In a non-temporary IPv6 address range, the start IPv6 address can't be higher than the end IPv6 address. 配置非临时IPv6地址范围时，起始IPv6地址不能大于结束IPv6地址。	Please make certain that In a non-temporary IPv6 address range, the start IPv6 address isn't higher than the end IPv6 address.
In a temporary IPv6 address range, the start IPv6	Please make certain that In a temporary IPv6 address range, the

address can't be higher than the end IPv6 address. 配置临时IPv6地址范围时，起始IPv6地址不能大于结束IPv6地址。	start IPv6 address isn't higher than the end IPv6 address.
DHCPv6 address pool name can't be changed. 指定IPv6地址池名称失败。	DHCPv6 address pool name can't be changed.
Another DHCPv6 address pool is using the name. 其他IPv6地址池正在使用该名字。	Another DHCPv6 address pool is using the name, please try another name.
Invalid IPv6 subnet address. 非法的IPv6网段地址。	Invalid IPv6 subnet address, please check your IPv6 subnet address.
Invalid start IPv6 address. 非法的起始IPv6地址。	Invalid start IPv6 address, please check it.
Invalid end IPv6 address. 非法的结束IPv6地址。	Invalid end IPv6 address, please check it.
Invalid IPv6 address. 非法的IPv6地址。	Invalid IPv6 address, please check it.
Non-temporary IPv6 address range and temporary IPv6 address range can't overlap. 非临时IPv6地址范围和临时IPv6地址范围不能互相重叠。	Please make certain that non-temporary IPv6 address range and temporary IPv6 address range is not overlap.
Number of DHCPv6 address pools exceeded the limit. DHCPv6地址池个数超过上限。	Number of DHCPv6 address pools exceeded the limit, when the number of DHCPv6 address pools is greater than 1024.
The IPv6 subnet already exists in another DHCPv6 address pool. 该IPv6网段的地址已经在配置在其他IPv6地址池中。	The IPv6 subnet already exists in another DHCPv6 address pool, please try another subnet.
The DHCPv6 address pool doesn't exist. 该DHCPv6地址池不存在。	The DHCPv6 address pool doesn't exist, when getting or deleting it.
Invalid length for the SIP server domain name. SIP服务器的域名长度不符合配置要求。	Invalid length for the SIP server domain name, please check it.
The option is not configurable. 该DHCPv6选项的配置是被禁止的。	The option is not configurable, please check your option.
The DHCPv6 option group doesn't exist. 该DHCPv6选项组不存在。	The DHCPv6 option group doesn't exist, when getting or deleting it.
Number of servers in the DHCPv6 address pool exceeded the limit. 该地址池可配DHCPv6服务器个数已达上限。	Number of servers in the DHCPv6 address pool exceeded the limit, when the number of servers in the DHCPv6 address pool is greater than 8.
An output interface is required when the DHCPv6 server address is a multicast address or link-local address. 当DHCPv6服务器地址为组播地址或者链路本地地址必须指定出口口。	Please make certain that an output interface is required when the DHCPv6 server address is a multicast address or link-local address.
The valid lifetime can't be shorter than the preferred lifetime.	Please make certain that the valid lifetime isn't shorter than the preferred lifetime.

有效生命期不应小于首选生命期。	
Invalid DUID. 非法的DUID字符串。	Invalid DUID, please check it.
Number of statically bound address exceeded the limit. 该地址池静态绑定的IPv6地址个数已达上限。	Number of statically bound address exceeded the limit, when the number of statically bound address is greater than 8192.
Number of statically bound prefixes exceeded the limit. 该地址池静态绑定IPv6地址前缀个数已达上限。	Number of statically bound prefixes exceeded the limit, when the number of statically bound prefixes is greater than 4096.
The assigned prefix length can't be shorter than the specified prefix length. 分配的前缀长度不能小于前缀长度。	Please make certain that the assigned prefix length isn't shorter than the specified prefix length.
Difference between the specified prefix length and the assigned prefix length can't be greater than 16. 分配的前缀长度和前缀长度大小差异应该不小于16。	Please make certain that the difference between the specified prefix length and the assigned prefix length isn't greater than 16.
Prefix pools can't overlap. 前缀池不应该重叠。	Please make certain that prefix pools isn't overlap.
Number of DHCPv6 servers on the interface exceeded the limit. 该接口上指定的DHCPv6服务器个数已达上限。	Number of DHCPv6 servers on the interface exceeded the limit, when the number of DHCPv6 servers on the interface is greater than 8.
Number of VRF exceeded the limit. VRF个数已达到上限。	Number of VRF exceeded the limit.
Not available. 未使用。	The Lease is not used.

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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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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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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: <ul style="list-style-type: none">truefalse	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	DHCPC
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: <ul style="list-style-type: none"> • true • false 	N/A
CurrentState	Current state of the DHCP client	N/A	Enumeration: <ul style="list-style-type: none"> • 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>
</DHCP>

```

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.

DHCPC/BootpAlloc

This table contains the information about using BOOTP for IP address acquisition.

XML structure

```
<DHCPC>
  <BootpAlloc>
    <Alloc>
      <IfIndex></IfIndex>
      <AllocEnable></AllocEnable>
      <AllocatedIpv4Address></AllocatedIpv4Address>
      <AllocatedIpv4Mask></AllocatedIpv4Mask>
      <MacAddress></MacAddress>
    </Alloc>
  </BootpAlloc>
</DHCPC>
```

Table description

Item	Description
Feature name	DHCPC
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: <ul style="list-style-type: none">• 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

Contents

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DHCP/dhccpc

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The configuration doesn't meet the requirements, please check your configuration.
Invalid client ID. 非法的客户端ID。	Invalid client ID, please check your client ID.

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Columns	4
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XML structure	4
Table description	4
Columns	5

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false (default) 	This column is available when the AllocEnable column is true .

DHCPC6/DHCP6PrefixDelegation

This table contains the information about using DHCPv6 for IPv6 prefix acquisition.

XML structure

```

<DHCPC6>
  <DHCP6PrefixDelegation>
    <PrefixDelegation>
      <IfIndex></IfIndex>
      <PrefixNumber></PrefixNumber>
      <OptionGroup></OptionGroup>
      <RapidCommit></RapidCommit>
    </PrefixDelegation>
  </DHCP6PrefixDelegation>
</DHCPC6>

```

Table description

Item	Description
Feature name	DHCPC6
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false (default) 	N/A

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XML structure	5
Table description	5
Columns	6

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

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.

DHCPC6/DHCP6Alloc

This table contains the information about using DHCPv6 for IPv6 address acquisition.

XML structure

```
<DHCPC6>
  <DHCP6Alloc>
    <Alloc>
      <IfIndex></IfIndex>
      <AllocEnable></AllocEnable>
    </Alloc>
  </DHCP6Alloc>
</DHCPC6>
```



```

    <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false 	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
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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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

Contents

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DHCP/dhccpc6

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The configuration doesn't meet the requirements, please check it.
Another interface is using the IPv6 prefix ID. 其它接口已经使用这个IPv6前缀号。	Another interface is using the IPv6 prefix ID, please try another one.

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XML structure	1
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Columns	2

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	<p>This table supports interface types:</p> <p>Layer 2 Ethernet interface/Layer 2 aggregate interface</p> <p>Layer 3 Ethernet interface/subinterface</p> <p>Layer 3 aggregate interface/aggregate subinterface</p> <p>S-channel interface/S-channel aggregate interface</p>
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false(default) 	N/A
CheckRequestMessage	Whether enable the interface to check request message in DHCP packets or not.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true. false(default) 	N/A
Strategy	Option 82 strategy type	N/A	Enumeration: <ul style="list-style-type: none"> 0—Drop. 1—Keep. 2—Replace (default). 	N/A
Circuit	The configuration of Circuit ID sub-option	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • RemoteIDMode • RemoteID • RemoteIDFormat 	N/A
RemoteIDMode	Remote ID mode	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• true.• false(default)	N/A

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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: <ul style="list-style-type: none">truefalse	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: <ul style="list-style-type: none"> • true • false 	N/A
CheckRequestMessage	Whether enable the interface to check request message in DHCP packets or not.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	Applicable to only Layer 2 interfaces of the Restrictions.
Trust	Whether configurate an interface to be trusted or not.	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false
Strategy	Option 82 strategy type	N/A	Enumeration: <ul style="list-style-type: none"> 0—Drop. 1—Keep. 2—Replace.
Circuit	The configuration of Circuit ID sub-option	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Normal. 1—Verbose. 2—User-defined.
CircuitIDNodeIDType	Circuit IP node-identifier type	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 0—Hex. • 1—Ascii. • 2—Undefined.
Remote	The configuration of Remote ID sub-option	Data structure	Members include: <ul style="list-style-type: none"> • RemoteIDMode • RemoteID • RemoteIDFormat
RemoteIDMode	Remote ID mode	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 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

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DHCP/dhcppsp

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The configuration doesn't meet the requirements, please check your configuration.
Invalid VLAN ID. 非法的VLAN ID。	Invalid VLAN ID, please check your VLAN ID.
The URL of the TFTP file can't include username or password. 不要为一个TFTP文件的URL指定用户名和密码。	Please do not set a username or password for a URL of the TFTP file.
Invalid filename or URL. 无效的本地文件名或URL。	Invalid filename or URL, please check it.
The URL can't include the username or password. 不要在URL中携带用户名和密码信息。	Please do not set username or password in the URL.
The system is saving DHCP snooping entries to backup file. Please wait. 系统正在将DHCP Snooping表项写入备份表项的文件中。请等待。	The system is saving DHCP snooping entries to backup file.
The system is downloading DHCP snooping entries from the backup file. Please wait. 系统正在从备份表项的文件中恢复DHCP Snooping表项。请等待。	The system is downloading DHCP snooping entries from the backup file.
The node identifier can't include any spaces. 节点标识的字符串中不允许出现空格。	Please make certain that the node identifier is not include any spaces.
The value is out of range. 参数值超出范围。	The value is out of range, please check your value.

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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: <ul style="list-style-type: none">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.

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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: <ul style="list-style-type: none"> true. false(default) 	N/A
CheckRequestMessage	Whether enable the interface to check request message in IPv6 DHCP packets or not.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">true.false(default)
RemoteIDEnable	Whether enable the IPv6 DHCP snooping to support RemoteID or not.	N/A	Boolean: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> true. false(default)

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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: <ul style="list-style-type: none"> true. false(default) 	N/A
CheckRequestMessage	Whether enable the interface to check request message in DHCP packets or not	N/A	Boolean: <ul style="list-style-type: none"> true. false(default) 	N/A
Trust	Whether configurate an interface to be trusted or not	N/A	Boolean: <ul style="list-style-type: none"> 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></RemoteID>
    </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: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default).
RemoteIDEnable	Enable the DHCP snooping to support RemoteID	N/A	Boolean: <ul style="list-style-type: none"> 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
DHCPSPEnable	Enable DHCP snooping	N/A	Boolean: <ul style="list-style-type: none">• 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

DHCP/dhccsp6 1

DHCP/dhccsp6

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The configuration doesn't meet the requirements, please check it.
Invalid VLAN ID. 非法的VLAN ID。	Invalid VLAN ID, please check it.
The URL of the TFTP file can't include username or password. 不要为一个TFTP文件的URL指定用户名和密码。	Please make certain that the URL of the TFTP file isn't include username or password.
Invalid filename or URL. 无效的本地文件名或URL。	Invalid file name or URL, please check it.
The URL can't include the username or password. 不要在URL中携带用户名和密码信息。	Please make certain that the URL isn't include the username or password.
The system is saving DHCPv6 snooping entries to backup file. Please wait. 系统正在将DHCPv6 Snooping表项写入备份表项的文件中。请等待。	The system is saving DHCPv6 snooping entries to backup file
The system is downloading DHCPv6 snooping entries from the backup file. Please wait. 系统正在从备份表项的文件中恢复DHCPv6 Snooping表项。请等待。	The system is downloading DHCPv6 snooping entries from the backup file.
The value is out of range. 参数值超出范围。	The value is out of range, please check it.

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XML structure.....	3
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Columns.....	4
Diagnostic/CoreAlert.....	5
XML structure.....	5
Table description.....	5
Columns.....	6
Diagnostic/Configuration	6
XML structure.....	6
Table description.....	6
Columns.....	7
Diagnostic/DiskAlert	7
XML structure.....	7
Table description.....	7
Columns.....	8

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 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 usage monitoring	N/A	Enumeration: <ul style="list-style-type: none"> 1—Disabled. 2—Enabled.
HistoryCycleInSecond	CPU usage sampling interval in seconds	N/A	Enumeration: <ul style="list-style-type: none"> 5—5 seconds. 60—60 seconds. 300—300 seconds.
CPUUsageLimit	CPU usage threshold (%)	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: <ul style="list-style-type: none"> 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

Diagnostic/Configuration

This table contains the global settings of the diagnostic module.

XML structure

```
<Diagnostic>
  <Configuration>
    <MonitorDiskUsageInterval></MonitorDiskUsageInterval>
  </Configuration>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	Configuration
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
MonitorDiskUsageInterval	Disk usage monitoring interval in seconds.	N/A	Unsigned integer. Value range: 5 to 1800. Default: 300.

Diagnostic/DiskAlert

This table contains disk usage alarm settings.

XML structure

```
<Diagnostic>
  <DiskAlert>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <DiskName></DiskName>
      <Threshold></Threshold>
    </Alert>
  </DiskAlert>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	DiskAlert
Table type	Multi-instance table
Row name	Alert
Restrictions	None
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.
DiskName	Disk name.	Index	String. Length: 1 to 64 characters.
Threshold	Disk usage threshold in percentage.	N/A	Unsigned integer. Value range: 1 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: <ul style="list-style-type: none"> 1—Disabled. 2—Enabled.
HistoryCycleInSecond	CPU usage sampling interval in seconds	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	(KB)		Value range: 0 to 4294967295.	
RunTime	Running time of the process	N/A	String. Formats: <ul style="list-style-type: none"> 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	Index	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	member device where the entity resides		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 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: <ul style="list-style-type: none"> • 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	N/A	Unsigned integer. Value range: 0 to 4294967295.

Column name	Column description	Column type	Data type and restrictions
	(KB)		
CommitLimit	Memory space currently available for allocation (KB)	N/A	Unsigned integer. 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>
    </Process>
  </ProcessesMemory>
</Diagnostic>

```



```

    <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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">NormalWarning

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
GroupNa me	Name of CPU group	N/A	String. Length: 1 to 64 characters.
CPUUsa ge	Usage in the most recent 5-second interval (%) for the specified plane	N/A	Unsigned integer. Value range: 0 to 100.
Last1mU sage	Usage in the most recent 1-minute interval (%) for the specified plane	N/A	Unsigned integer. Value range: 0 to 100.
Last5mU sage	Usage in the most recent 5-minute interval (%) for the specified plane	N/A	Unsigned integer. Value range: 0 to 100.

Diagnostic/Configuration

This table contains the global settings of the diagnostic module.

XML structure

```

<Diagnostic>
  <Configuration>
    <MonitorDiskEnable></MonitorDiskEnable>
    <DefaultMonitorDiskUsageInterval></DefaultMonitorDiskUsageInterval>
    <MonitorDiskUsageInterval></MonitorDiskUsageInterval>
  </Configuration>
</Diagnostic>

```

Table description

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

Columns

Column name	Column description	Column type	Data type
MonitorDiskEnable	Enable disk usage monitoring.	N/A	Boolean: <ul style="list-style-type: none">truefalse
DefaultMonitorDiskUsageInterval	Default disk usage monitoring interval in seconds.	N/A	Unsigned integer. Value range: 5 to 1800.
MonitorDiskUsageInterval	Disk usage monitoring interval in seconds.	N/A	Unsigned integer. Value range: 5 to 1800.

Diagnostic/DiskAlert

This table contains disk usage alarm settings.

XML structure

```
<Diagnostic>
  <DiskAlert>
    <Alert>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <DiskName></DiskName>
      <Threshold></Threshold>
    </Alert>
  </DiskAlert>
</Diagnostic>
```

Table description

Item	Description
Feature name	Diagnostic
Table name	DiskAlert
Table type	Multi-instance table
Row name	Alert
Restrictions	None

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.
DiskName	Disk name.	Index	String. Length: 1 to 64 characters.
Threshold	Disk usage threshold in percentage.	N/A	Unsigned integer. Value range: 1 to 100.

Contents

- Diagnostic1
 - Diagnostic/CPUUsage(currently not available)..... 1
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 - Diagnostic/CoreAlert..... 2

Diagnostic

Diagnostic/CPUUsage(currently not available)

Message	Explanation
The value of MinorThreshold should be greater than the value of RecoveryThreshold.	The value of MinorThreshold should be greater than the value of RecoveryThreshold.
PEX configuration not supported.	PEX configuration not supported.

Diagnostic/MemoryAlert

Message	Explanation
The value of SevereThreshold should be greater than or equal to the value of CriticalThreshold.	The value of SevereThreshold should be greater than or equal to the value of CriticalThreshold.
The value of MinorThreshold should be greater than or equal to the value of SevereThreshold.	The value of MinorThreshold should be greater than or equal to the value of SevereThreshold.
The value of NormalThreshold should be greater than or equal to the value of MinorThreshold.	The value of NormalThreshold should be greater than or equal to the value of MinorThreshold.
The value of NormalThreshold should be less than or equal to the total memory size of Device.	The value of NormalThreshold should be less than or equal to the total memory size of Device.
The value of WarningThreshold should be greater than the value of MinorThreshold.	The value of WarningThreshold should be greater than the value of MinorThreshold.
To disable the free-memory alarm feature, set all free-memory thresholds to 0.	To disable the free-memory alarm feature, set all free-memory thresholds to 0.
The value of EarlyWarningThreshold should be greater than or equal to the value of NormalThreshold.	The value of EarlyWarningThreshold should be greater than or equal to the value of NormalThreshold.
The value of EarlyWarningThreshold should be less than or equal to the total memory size.	The value of EarlyWarningThreshold should be less than or equal to the total memory size.
The value of SecureThreshold should be greater than or equal to the value of EarlyWarningThreshold.	The value of SecureThreshold should be greater than or equal to the value of EarlyWarningThreshold.
The value of SecureThreshold should be less than or equal to the total memory size.	The value of SecureThreshold should be less than or equal to the total memory size.
To disable the EarlyWarningThreshold alarm feature, set EarlyWarningThreshold and SecureThreshold to 0.	To disable the EarlyWarningThreshold alarm feature, set EarlyWarningThreshold and SecureThreshold to 0.
The device doesn't support setting EarlyWarningThreshold or SecureThreshold.	The device doesn't support setting EarlyWarningThreshold or SecureThreshold.
Please set all free-memory thresholds to 0 to disable the free-memory alarm functions first.	Please set all free-memory thresholds to 0 to disable the free-memory alarm functions first.
For a create or merge operation, all non-index columns are required.	For a create or merge operation, all non-index columns are required.
For a delete, remove, or replace operation, you must specify all non-index columns or leave all	For a delete, remove, or replace operation, you must specify all non-index columns or leave all non-index columns unspecified.

non-index columns unspecified.	
--------------------------------	--

Diagnostic/CoreAlert

Message	Explanation
The core doesn't support setting the thresholds.	The core doesn't support setting the thresholds.
The specified core doesn't exist.	The specified core doesn't exist.
The value of CoreThreshold must be in the range of 2 to 100.	The value of CoreThreshold must be in the range of 2 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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>
    <Description></Description>
    <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>
      <Description>Normal</Description>
      <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: <ul style="list-style-type: none"> 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
TopUsageProcesses	Memory Info of top usage process	Members include: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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 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>
  </Cores>
  <Process>
    <Name></Name>
    <CPU></CPU>
    <JobID></JobID>
    <PID></PID>
    <PPID></PPID>
    <InLast5sUsage></InLast5sUsage>
    <InLast1mUsage></InLast1mUsage>
    <InLast5mUsage></InLast5mUsage>
    <State></State>
    <Memory></Memory>
  </Process>
</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>
    </Cores>
    <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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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

DiskEvent event

This event is used to report disk alarm information.

XML structure for event subscription

```
<DiskEvent>
  <Disk>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <DiskName></DiskName>
  </Disk>
</DiskEvent>
```

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">
      <DiskEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
        <Disk>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
          <DiskName>flash</DiskName>
        </Disk>
      </DiskEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Diagnostic
Event name	DiskEvent
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 where the device entity resides.	Unsigned integer. Value range: 0 to 65535.	No

Column name	Column description	Data type and restrictions	Support for extended queries
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
DiskName	Disk name.	String. Length: 1 to 64 characters.	

XML structure for event report

```

<DiskEvent>
  <Disk>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <DiskName></DiskName>
    <Threshold></Threshold>
    <CurrentUsage></CurrentUsage>
  </Disk>
</DiskEvent>

```

Example:

```

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <DiskEvent xmlns="http://www.h3c.com/netconf/event:1.0/Diagnostic:1.0">
    <Disk>
      <Chassis>0</Chassis>
      <Slot><0/Slot>
      <CPUID>0</CPUID>
      <DiskName>flash</DiskName>
      <Threshold>80</Threshold>
      <CurrentUsage>45.55</CurrentUsage>
    </Disk>
  </DiskEvent>
</notification>

```

Columns

Column name	Column description	Data type and restrictions
Chassis	Member ID of the member device where the entity resides.	Unsigned integer. Value range: 0 to 65535.
Slot	Slot number of the device node.	Unsigned integer. Value range: 0 to 65535.
CPUID	CPU Identification.	Unsigned integer. Value range: 0 to 65535.

Column name	Column description	Data type and restrictions
DiskName	Disk name.	String. Length: 1 to 64 characters.
Threshold	Disk usage threshold (%).	Unsigned integer. Value range: 1 to 100.
CurrentUsage	Current disk usage (%).	Double. Value range: 0.00 to 100.00.

Contents

- DIM 1
 - DIM/CompileInspectEngine..... 1
 - XML structure..... 1
 - Table description..... 1
 - Columns..... 1

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: <ul style="list-style-type: none">truefalse	N/A

Contents

DIM	1
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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: <ul style="list-style-type: none">truefalse	N/A
IsLogMail	Email the logs to an email server or not	N/A	Boolean: <ul style="list-style-type: none">truefalse	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: <ul style="list-style-type: none"> true false 	N/A
IsNeedSPA	Requires using SPA by the mail server or not	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">truefalse	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
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: <ul style="list-style-type: none">truefalse	N/A
IsLogMail	Email the logs to an email server or not	N/A	Boolean: <ul style="list-style-type: none">truefalse	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: <ul style="list-style-type: none"> true false 	N/A
IsNeedSPA	Requires using SPA by the mail server or not	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

DIM/DeviceInfo

This table contains the device node where main dpid running on.

XML structure

```
<DIM>
  <DeviceInfo>
    <ModuleName></ModuleName>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
  </DeviceInfo>
</DIM>
```

Table description

Item	Description
Feature name	DIM
Table name	DeviceInfo
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ModuleName	The name of current module.	Index	String. Length: 1 to 63 characters..	N/A
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

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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: <ul style="list-style-type: none">1—Static.2—Dynamic.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
QueryType	Query type	Index	Enumeration: <ul style="list-style-type: none"> • 1—A. • 2—AAAA. 	<p>A type A query resolves a domain name to the mapped IPv4 address.</p> <p>A type AAAA query resolves a domain name to the mapped IPv6 address.</p> <p>If all the query type is set, the length of the column is 0.</p>

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XML structure	4
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Columns.....	5
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XML structure	5
Table description.....	6
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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">truefalse(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/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>
    </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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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: <ul style="list-style-type: none"> 1—Static. 2—Dynamic. 	N/A
QueryType	Query type	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">1—Static.2—Dynamic.	N/A
AddressType	Type of the DNS server IP address	Index	Enumeration: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">trueFalse	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: <ul style="list-style-type: none">truefalse	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>
```


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: <ul style="list-style-type: none"> 1—Static. 2—Dynamic. 	N/A
AddressType	Type of the DNS server IP address	Index	Enumeration: <ul style="list-style-type: none"> 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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DNS/DNSServer	1
DNS/DNSDomain	2
DNS/DNSConfig	2

DNS

DNS/DNSHost

Message	Explanation
Invalid host name.	Invalid host name configuration.
Maximum number of VRFs already reached.	Maximum number of VRFs already reached. ,please check configuration or specifications.
Maximum number of IPv4 DNS entries already reached.	Maximum number of IPv4 DNS entries already reached, please check configuration or specifications.
Failed to create the IPv4 DNS entry.	Failed to create the IPv4 DNS entry, please modify configuration under guidance.
Invalid IPv6 address.	nvalid IPv6 address configuration.
The configuration doesn't meet the requirements.	Invalid configuration, please modify configuration under guidance.
The configuration doesn't meet the requirements.	Invalid configuration, please modify configuration under guidance.
Maximum number of IPv6 DNS entries already reached.	Maximum number of IPv6 DNS entries already reached ,please check configuration or specifications
Failed to create the IPv6 DNS entry.	Failed to create the IPv6 DNS entry, please modify configuration under guidance.

DNS/DNSServer

Message	Explanation
Maximum number of VRFs already reached.	Maximum number of VRFs already reached, please check configuration or specifications.
Maximum number of DNS servers already reached.	Maximum number of DNS servers already reached. , please check configuration or specifications.
Failed to specify the DNS server.	Failed to specify the DNS server, please modify configuration under guidance.
An output interface must be specified when the IPv6 address of the DNS server is a link-local address.	Invalid configuration, please modify configuration under guidance.
An output interface is not configurable when the IPv6 address of the DNS server is a global unicast address.	Invalid configuration, please modify configuration under guidance.
Invalid IPv6 address.	Invalid IPv6 address configuration.
Failed to specify the IPv6 DNS server.	Failed to specify the IPv6 DNS server, please modify configuration under guidance.
The configuration doesn't meet the requirements.	Invalid configuration, please modify configuration under guidance.

An output interface is not configurable when you specify a DNS server by its IPv4 address.	Invalid configuration, please modify configuration under guidance.
--------------------------------------------------------------------------------------------	--------------------------------------------------------------------

DNS/DNSDomain

Message	Explanation
Maximum number of VRFs already reached.	Maximum number of VRFs already reached, please check configuration or specifications.
Invalid domain name suffix.	Invalid configuration, please modify configuration under guidance.
Failed to create the domain name suffix.	Invalid configuration, please modify configuration under guidance.
Maximum number of domain name suffixes already reached.	Maximum number of domain name suffixes already reached, please check configuration or specifications.

DNS/DNSConfig

Message	Explanation
Failed to enable DNS proxy.	Failed to enable DNS proxy, please modify configuration under guidance.

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 - Domain/Domains 1
 - XML structure..... 1
 - Table description..... 1
 - Columns 1
 - Domain/ResetUserRecords 1
 - XML structure..... 1
 - Table description..... 2
 - Columns 2

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: <ul style="list-style-type: none">• 0—Block.• 1—Active.

Domain/ResetUserRecords

This table clears user online or offline records.

XML structure

```
<Domain>
```



```

<ResetUserRecords>
  <RecordType></RecordType>
</ResetUserRecords>
</Domain>

```

Table description

Item	Description
Feature name	Domain
Table name	ResetUserRecords
Table type	Single-instance table
Row name	ResetUserRecord
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RecordType	Type of user records to be cleared	Index	Enumeration: <ul style="list-style-type: none"> • 0—Abnormal offline records. • 1—Normal offline records. • 2—Offline records. • 3—Online failure records.

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XML structure	9
Table description	10
Columns	10
Domain/EnableAbnormalOfflineRecords	10
XML structure	10
Table description	11
Columns	11
Domain/EnableNormalOfflineRecords	11
XML structure	11
Table description	11
Columns	12
Domain/EnableOfflineRecords	12
XML structure	12
Table description	12
Columns	12
Domain/EnableOnlineFailRecords	12
XML structure	13
Table description	13
Columns	13

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. <ul style="list-style-type: none">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. <ul style="list-style-type: none">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. <ul style="list-style-type: none">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>
      <UserAddrType></UserAddrType>
      <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>
        <InboundUserPriority></InboundUserPriority>
        <OutboundUserPriority></OutboundUserPriority>
      </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.
SessTimeIncludle	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Allow the users to stay online. 1—Log off the users. 	Default: 0.
ServiceType	Service type of the domain	N/A	Enumeration: <ul style="list-style-type: none"> 0—High-Speed Internet (HSI) service. 1—Set Top Box (STB) service. 2—Voice over IP (VoIP) service. 	Default: 0.
UserAddrType	User address type of the domain	N/A	Enumeration: <ul style="list-style-type: none"> 0—public-ipv4. 1—private-ipv4. 2—public-ds. 3—private-ds. 4—ds-lite. 	N/A

			<ul style="list-style-type: none"> • 5—ipv6. • 6—nat64. 	
AuthorAttrs	Authorization attributes	Data structure	Members include: <ul style="list-style-type: none"> • IdleTime. • IdleFlow. • ProfileName. • IpPoolName. • Ipv6PoolName. • Ipv6Address. • Ipv6PrefixLength. • PrimDnsIpaddr. • PrimDnsIpv6addr. • SecDnsIpaddr. • SecDnsIpv6addr. • PortalUrl. • VRF. • IgmpMaxAccessNum. • MldMaxAccessNum. • SessTimeOut. 	N/A
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	VPN instance 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.
InboundUserPriority	Inbound user priority	N/A	Unsigned integer. Value range: 0 to 7.	N/A
OutboundUserPriority	Outbound user priority	N/A	Unsigned integer. Value range: 0 to 7.	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
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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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.	
SchemeNam	Scheme name	N/A	String, case-insensitive.	If this column is not

Column name	Column description	Column type	Data type and restrictions	Remarks
eList	list.		<p>Length: 0 to 68 characters, may contain 0 to 2 scheme names.</p> <p>Every scheme name contains two parts: Scheme name length and scheme name string.</p> <p>The scheme name is in the format of xxmm.....mm.</p> <ul style="list-style-type: none"> 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. <p>For example:</p> <ul style="list-style-type: none"> 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. 	available, no schemes are specified.

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: <ul style="list-style-type: none"> 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/EnableAbnormalOfflineRecords

This table controls the enabling status of the user abnormal offline recording feature.

XML structure

```

<Domain>
  <EnableAbnormalOfflineRecords>
    <Enable></Enable>
  </EnableAbnormalOfflineRecords>
</Domain>

```


Table description

Item	Description
Feature name	Domain
Table name	EnableAbnormalOfflineRecords
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	Whether to enable the user abnormal offline recording feature	N/A	Boolean: <ul style="list-style-type: none">true—Enable.false—Disable.	The default varies by device model.

Domain/EnableNormalOfflineRecords

This table controls the enabling status of the user normal offline recording feature.

XML structure

```
<Domain>
  <EnableNormalOfflineRecords>
    <Enable></Enable>
  </EnableNormalOfflineRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	EnableNormalOfflineRecords
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	Whether to enable the user normal offline recording feature	N/A	Boolean: <ul style="list-style-type: none">true—Enable.false—Disable.	The default varies by device model.

Domain/EnableOfflineRecords

This table controls the enabling status of the user offline recording feature.

XML structure

```
<Domain>
  <EnableOfflineRecords>
    <Enable></Enable>
  </EnableOfflineRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	EnableOfflineRecords
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	Whether to enable the user offline recording feature	N/A	Boolean: <ul style="list-style-type: none">true—Enable.false—Disable.	The default varies by device model.

Domain/EnableOnlineFailRecords

This table controls the enabling status of the user online failure recording feature.

XML structure

```
<Domain>
  <EnableOnlineFailRecords>
    <Enable></Enable>
  </EnableOnlineFailRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	EnableOnlineFailRecords
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	Whether to enable the user online failure recording feature	N/A	Boolean: <ul style="list-style-type: none">true—Enable.false—Disable.	The default varies by device model.

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Columns	21
Domain/EnableOfflineRecords	22
XML structure	22
Table description	22
Columns	22
Domain/EnableOnlineFailRecords	22
XML structure	22
Table description	23
Columns	23

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. <ul style="list-style-type: none">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. <ul style="list-style-type: none">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. <ul style="list-style-type: none">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>
      <UserAddrType></UserAddrType>
      <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>
        <InboundUserPriority></InboundUserPriority>
        <OutboundUserPriority></OutboundUserPriority>
      </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.
SessTimeInclde	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Blocked. 1—Active. 	Default: 1.
AcctStartFail Action	Access control for users that encounter accounting-start failures	N/A	Boolean: <ul style="list-style-type: none"> 0—Allow the users to stay online. 1—Log off the users. 	Default: 0.
ServiceType	Service type of the domain	N/A	Enumeration: <ul style="list-style-type: none"> 0—High-Speed Internet (HSI) service. 1—Set Top Box (STB) service. 2—Voice over IP (VoIP) service. 	Default: 0.
UserAddrType	User address type of the domain	N/A	Enumeration: <ul style="list-style-type: none"> 0—public-ipv4. 1—private-ipv4. 2—public-ds. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 3—private-ds. 4—ds-lite. 5—ipv6. 6—nat64. 	
AuthorAttrs	Authorization attributes	Data structure	Members include: <ul style="list-style-type: none"> IdleTime. IdleFlow. ProfileName. IpPoolName. Ipv6PoolName. Ipv6Address. Ipv6PrefixLength. PrimDnsIpaddr. PrimDnsIpv6addr. SecDnsIpaddr. SecDnsIpv6addr. PortalUrl. VRF. IgmpMaxAccessNum. MldMaxAccessNum. SessTimeOut. 	N/A
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.
PrimDnsIpv6	IPv6 address of the primary DNS	N/A	IPv6: Hexadecimal string.	IPv6 example:

Column name	Column description	Column type	Data type and restrictions	Remarks
addr	server			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.
SecDnsIpaddr	IPv6 address of the secondary DNS server	N/A	IPv6: Hexadecimal string.	IPv6 example: 1:2:3:4:5:6:7:8.
PortalUrl	Portal redirect URL	N/A	String, case-sensitive. Length: 1 to 255 characters.	N/A
VRF	VPN instance 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
InboundUserPriority	Inbound user priority	N/A	Unsigned integer. Value range: 0 to 7.	N/A
OutboundUserPriority	Outbound user priority	N/A	Unsigned integer. Value range: 0 to 7.	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: <ul style="list-style-type: none"> • 0—Authentication. • 4—Authorization. • 5—Accounting. 	<p>There are some restrictions among the columns AccessType, AaaType, and SchemeList. Those restrictions will be described in the Restrictions section below the table.</p>
AccessType	Access type.	Index	Enumeration: <ul style="list-style-type: none"> • 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	<p>String.</p> <p>Length: 1 to 9 characters, using the format of 1-2-4.</p> <p>A hyphen (-) is used to separate the digits that represent different AAA methods, including:</p> <ul style="list-style-type: none"> • 1—HWTACACS. • 2—RADIUS. • 3—LDAP. • 4—Local. • 5—None. <p>The string 1-2-4 indicates that HWTACACS is specified as the primary authentication, authorization, or accounting method. If the HWTACACS</p>	

Column name	Column description	Column type	Data type and restrictions	Remarks
			method fails, the RADIUS method applies. If the RADIUS method fails, the local method applies.	
SchemeNameList	Scheme name list.	N/A	<p>String, case-insensitive.</p> <p>Length: 0 to 68 characters, which can contain 0 to 2 scheme names.</p> <p>Every scheme name contains two parts: Scheme name length and scheme name string.</p> <p>The scheme name is in the format of xxmm.....mm.</p> <ul style="list-style-type: none"> 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. <p>For example:</p> <ul style="list-style-type: none"> 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. 	If this column is not available, no schemes are specified.

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) Access type +AAA type		RADIUS (3)	TACACS (3)	LDAP (3)	Local (2)	None (1)
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 authenticat ion 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> • Ftp. • Telnet. • Http. 	N/A
Ftp	Whether to support the column Ftp in the table Domain/Session Limit.	N/A	Boolean: <ul style="list-style-type: none"> • true. • false. 	<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true. • false. 	
Http	Whether to	N/A	Boolean:	

Column name	Column description	Column type	Data type and restrictions	Remarks
	support the column Http in the table Domain/Session Limit.		<ul style="list-style-type: none"> true. false. 	
SchemesSpecification	Additional description for the table Domain/Schemes.	Data structure	The member is None.	N/A
None	Whether to support the none method for authentication, authorization, and accounting.	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	In FIPS mode, the none method is not supported for authentication, authorization, or accounting of all users.

Domain/UserAbnormalOfflineRecords

This table contains user abnormal offline records.

XML structure

```

<Domain>
  <UserAbnormalOfflineRecords>
    <UserAbnormalOfflineRecord>
      <SerialNumber></SerialNumber>
      <OfflineTime></OfflineTime>
      <UserName></UserName>
      <AccessType></AccessType>
      <DomainName></DomainName>
      <Interface></Interface>
      <Ip></Ip>
      <Ipv6></Ipv6>
      <MacAddress></MacAddress>
      <OfflineReason></OfflineReason>
      <OnlineRequestTime></OnlineRequestTime>
      <Svlan></Svlan>
      <Cvlan></Cvlan>
      <Slot></Slot>
      <Chassis></Chassis>
    </UserAbnormalOfflineRecord>
  </UserAbnormalOfflineRecords>
</Domain>

```


Table description

Item	Description
Feature name	Domain
Table name	UserAbnormalOfflineRecords
Table type	Multi-instance table
Row name	UserAbnormalOfflineRecord
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SerialNumber	Serial number of a user abnormal offline record	Index	Unsigned integer. Value range: 1 to $2^{64}-1$.
OfflineTime	Time when the user went offline	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS. Value range for YYYY: 2000 to 2035. Value range for MM: 1 to 12. Value range for DD depends on the specified month. Value range for HH: 0 to 23. Value range for MM: 0 to 59. Value range for SS: 0 to 59.
UserName	Username	N/A	String, case-sensitive. Length: 1 to 253 characters.
AccessType	Access type of the user	N/A	Enumeration: <ul style="list-style-type: none">1—PPP.2—IPoE.3—Portal.4—Login.5—LAN access.
DomainName	Name of the ISP domain to which the user belongs	N/A	String, case-insensitive. Length: 1 to 255 characters.
Interface	Interface through which the user accesses the network	N/A	String, case-insensitive. Length: 1 to 47 characters.
Ip	IP address of the user	N/A	String, dotted decimal notation.
Ipv6	IPv6 address of the user	N/A	Hexadecimal string, colon-separated.
MacAddress	MAC address of the user	N/A	MAC address format: ff-ff-ff-ff-ff-ff.
OfflineReason	Reason that the user went offline	N/A	String, case-sensitive.
OnlineRequestTi	Time when the user	N/A	DateTime.

Column name	Column description	Column type	Data type and restrictions
me	requested to come online		Format: YYYY-MM-DDTHH:MM:SS. Value range for YYYY: 2000 to 2035. Value range for MM: 1 to 12. Value range for DD depends on the specified month. Value range for HH: 0 to 23. Value range for MM: 0 to 59. Value range for SS: 0 to 59.
Svlan	ID of the service provider network VLAN to which the user belongs	N/A	Unsigned integer. Value range: 1 to 4094.
Cvlan	ID of the customer network VLAN to which the user belongs	N/A	Unsigned integer. Value range: 1 to 4094.
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to $2^{16}-1$.
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to $2^{16}-1$.

Domain/UserNormalOfflineRecords

This table contains user normal offline records.

XML structure

```

<Domain>
  <UserNormalOfflineRecords>
    <UserNormalOfflineRecord>
      <SerialNumber></SerialNumber>
      <OfflineTime></OfflineTime>
      <UserName></UserName>
      <AccessType></AccessType>
      <DomainName></DomainName>
      <Interface></Interface>
      <Ip></Ip>
      <Ipv6></Ipv6>
      <MacAddress></MacAddress>
      <OfflineReason></OfflineReason>
      <OnlineRequestTime></OnlineRequestTime>
      <Svlan></Svlan>
      <Cvlan></Cvlan>
      <Slot></Slot>
      <Chassis></Chassis>
    </UserNormalOfflineRecord>
  </UserNormalOfflineRecords>
</Domain>

```



```

    </UserNormalOfflineRecords>
  </Domain>

```

Table description

Item	Description
Feature name	Domain
Table name	UserNormalOfflineRecords
Table type	Multi-instance table
Row name	UserNormalOfflineRecord
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SerialNumber	Serial number of a user normal offline record	Index	Unsigned integer. Value range: 1 to 2 ⁶⁴ -1.
OfflineTime	Time when the user went offline	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS. Value range for YYYY: 2000 to 2035. Value range for MM: 1 to 12. Value range for DD depends on the specified month. Value range for HH: 0 to 23. Value range for MM: 0 to 59. Value range for SS: 0 to 59.
UserName	Username	N/A	String, case-sensitive. Length: 1 to 253 characters.
AccessType	Access type of the user.	N/A	Enumeration: <ul style="list-style-type: none"> 1—PPP. 2—IPoE. 3—Portal. 4—Login. 5—LAN access.
DomainName	Name of the ISP domain to which the user belongs	N/A	String, case-insensitive. Length: 1 to 255 characters.
Interface	Interface through which the user accesses the network	N/A	String, case-insensitive. Length: 1 to 47 characters.
Ip	IP address of the user	N/A	String, dotted decimal notation.
Ipv6	IPv6 address of the user	N/A	Hexadecimal string, colon-separated.
MacAddress	MAC address of the user	N/A	MAC address format: ff-ff-ff-ff-ff-ff.
OfflineReason	Reason that the user	N/A	String, case-sensitive.

Column name	Column description	Column type	Data type and restrictions
	went offline		
OnlineRequestTime	Time when the user requested to come online	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS. Value range for YYYY: 2000 to 2035. Value range for MM: 1 to 12. Value range for DD depends on the specified month. Value range for HH: 0 to 23. Value range for MM: 0 to 59. Value range for SS: 0 to 59.
Svlan	ID of the service provider network VLAN to which the user belongs	N/A	Unsigned integer. Value range: 1 to 4094.
Cvlan	ID of the customer network VLAN to which the user belongs	N/A	Unsigned integer. Value range: 1 to 4094.
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to $2^{16}-1$.
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to $2^{16}-1$.

Domain/UserOfflineRecords

This table contains user offline records, including user abnormal offline records and user normal offline records.

XML structure

```

<Domain>
  <UserOfflineRecords>
    <UserOfflineRecord>
      <SerialNumber></SerialNumber>
      <OfflineTime></OfflineTime>
      <UserName></UserName>
      <AccessType></AccessType>
      <DomainName></DomainName>
      <Interface></Interface>
      <Ip></Ip>
      <Ipv6></Ipv6>
      <MacAddress></MacAddress>
      <OfflineReason></OfflineReason>
      <OnlineRequestTime></OnlineRequestTime>
      <Svlan></Svlan>
      <Cvlan></Cvlan>
      <Slot></Slot>
    
```



```

    <Chassis></Chassis>
  </UserOfflineRecord>
</UserOfflineRecords>
</Domain>

```

Table description

Item	Description
Feature name	Domain
Table name	UserOfflineRecords
Table type	Multi-instance table
Row name	UserOfflineRecord
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SerialNumber	Serial number of a user offline record	Index	Unsigned integer. Value range: 1 to $2^{64}-1$.
OfflineTime	Time when the user went offline	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS. Value range for YYYY: 2000 to 2035. Value range for MM: 1 to 12. Value range for DD depends on the specified month. Value range for HH: 0 to 23. Value range for MM: 0 to 59. Value range for SS: 0 to 59.
UserName	Username	N/A	String, case-sensitive. Length: 1 to 253 characters.
AccessType	Access type of the user	N/A	Enumeration: <ul style="list-style-type: none"> 1—PPP. 2—IPoE. 3—Portal. 4—Login. 5—LAN access.
DomainName	Name of the ISP domain to which the user belongs	N/A	String, case-insensitive. Length: 1 to 255 characters.
Interface	Interface through which the user accesses the network	N/A	String, case-insensitive. Length: 1 to 47 characters.
Ip	IP address of the user	N/A	String, dotted decimal notation.
Ipv6	IPv6 address of the user	N/A	Hexadecimal string, colon-separated.

Column name	Column description	Column type	Data type and restrictions
MacAddress	MAC address of the user	N/A	MAC address format: ff-ff-ff-ff-ff.
OfflineReason	Reason that the user went offline	N/A	String, case-sensitive.
OnlineRequestTime	Time when the user requested to come online	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS. Value range for YYYY: 2000 to 2035. Value range for MM: 1 to 12. Value range for DD depends on the specified month. Value range for HH: 0 to 23. Value range for MM: 0 to 59. Value range for SS: 0 to 59.
Svlan	ID of the service provider network VLAN to which the user belongs	N/A	Unsigned integer. Value range: 1 to 4094.
Cvlan	ID of the customer network VLAN to which the user belongs	N/A	Unsigned integer. Value range: 1 to 4094.
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to $2^{16}-1$.
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to $2^{16}-1$.

Domain/UserOnlineFailRecords

This table contains user online failure records.

XML structure

```

<Domain>
  <UserOnlineFailRecords>
    <UserOnlineFailRecord>
      <SerialNumber></SerialNumber>
      <OnlineRequestTime></OnlineRequestTime>
      <UserName></UserName>
      <AccessType></AccessType>
      <DomainName></DomainName>
      <Interface></Interface>
      <Ip></Ip>
      <Ipv6></Ipv6>
      <MacAddress></MacAddress>
      <ServerReplyMessage></ServerReplyMessage>
      <OnlineFailureReason></OnlineFailureReason>
      <Svlan></Svlan>
    </UserOnlineFailRecord>
  </UserOnlineFailRecords>
</Domain>

```



```

    <Cvlan></Cvlan>
    <Slot></Slot>
    <Chassis></Chassis>
  </UserOnlineFailRecord>
</UserOnlineFailRecords>
</Domain>

```

Table description

Item	Description
Feature name	Domain
Table name	UserOnlineFailRecords
Table type	Multi-instance table
Row name	UserOnlineFailRecord
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SerialNumber	Serial number of a user online failure record	Index	Unsigned integer. Value range: 1 to $2^{64}-1$.
OnlineRequestTime	Time when the user requested to come online	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS. Value range for YYYY: 2000 to 2035. Value range for MM: 1 to 12. Value range for DD depends on the specified month. Value range for HH: 0 to 23. Value range for MM: 0 to 59. Value range for SS: 0 to 59.
UserName	Username	N/A	String, case-sensitive. Length: 1 to 253 characters.
AccessType	Access type of the user	N/A	Enumeration: <ul style="list-style-type: none"> 1—PPP. 2—IPoE. 3—Portal. 4—Login. 5—LAN access.
DomainName	Name of the ISP domain to which the user belongs	N/A	String, case-insensitive. Length: 1 to 255 characters.
Interface	Interface through which the user accesses the network	N/A	String, case-insensitive. Length: 1 to 47 characters.

Column name	Column description	Column type	Data type and restrictions
Ip	IP address of the user	N/A	String, dotted decimal notation.
Ipv6	IPv6 address of the user	N/A	Hexadecimal string, colon-separated.
MacAddress	MAC address of the user	N/A	MAC address format: ff-ff-ff-ff-ff-ff.
ServerReplyMessage	Server reply message	N/A	String, case-sensitive. Length: 1 to 252 characters.
OnlineFailureReason	Online failure reason	N/A	String, case-sensitive.
Svlan	ID of the service provider network VLAN to which the user belongs	N/A	Unsigned integer. Value range: 1 to 4094.
Cvlan	ID of the customer network VLAN to which the user belongs	N/A	Unsigned integer. Value range: 1 to 4094.
Slot	Slot number	N/A	Unsigned integer. Value range: 0 to $2^{16}-1$.
Chassis	Chassis number	N/A	Unsigned integer. Value range: 0 to $2^{16}-1$.

Domain/EnableAbnormalOfflineRecords

This table contains the enabling status of the user abnormal offline recording feature.

XML structure

```

<Domain>
  <EnableAbnormalOfflineRecords>
    <Enable></Enable>
  </EnableAbnormalOfflineRecords>
</Domain>

```

Table description

Item	Description
Feature name	Domain
Table name	EnableAbnormalOfflineRecords
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description		Data type and restrictions	Remarks
Enable	Whether the user abnormal offline recording feature is enabled	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	The default varies by device model.

Domain/EnableNormalOfflineRecords

This table contains the enabling status of the user normal offline recording feature.

XML structure

```
<Domain>
  <EnableNormalOfflineRecords>
    <Enable></Enable>
  </EnableNormalOfflineRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	EnableNormalOfflineRecords
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether the user normal offline recording feature is enabled	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	The default varies by device model.

Domain/EnableOfflineRecords

This table contains the enabling status of the user offline recording feature.

XML structure

```
<Domain>
  <EnableOfflineRecords>
    <Enable></Enable>
  </EnableOfflineRecords>
</Domain>
```

Table description

Item	Description
Feature name	Domain
Table name	EnableOfflineRecords
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether the user offline recording feature is enabled	N/A	Boolean: <ul style="list-style-type: none">true—Enabled.false—Disabled.	The default varies by device model.

Domain/EnableOnlineFailRecords

This table contains the enabling status of the user online failure recording feature.

XML structure

```
<Domain>
  <EnableOnlineFailRecords>
    <Enable></Enable>
  </EnableOnlineFailRecords>
</Domain>
```


Table description

Item	Description
Feature name	Domain
Table name	EnableOnlineFailRecords
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Whether the user online failure recording feature is enabled	N/A	Boolean: <ul style="list-style-type: none">true—Enabled.false—Disabled.	The default varies by device model.

Contents

- Domain1
 - Domain/GlobalConfig.....1
 - Domain/Domains1

Domain

Domain/GlobalConfig

Message	Explanation
Domain name must not include \, , /, :, *, ?, "", <, > and @.	Domain name must not include \, , /, :, *, ?, "", <, > and @.
The specified domain does not exist.	When the default domain is modified, the specified ISP domain does not exist.

Domain/Domains

Message	Explanation
Domain name must not include \, , /, :, *, ?, "", <, > and @.	Domain name must not include \, , /, :, *, ?, "", <, > and @.
The number of domains has reached the limit.	The number of domains has reached the limit.
It's system domain, cannot be deleted!	Cannot delete the predefined ISP domain in the system.
It's default domain, cannot be deleted!	Cannot delete the default ISP domain in the system.
The specified domain does not exist.	The specified ISP domain does not exist.

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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	<ul style="list-style-type: none">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	<ul style="list-style-type: none">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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> This column must be empty

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XML structure	4
Table description	4
Columns	5
Dot1X/Interfaces	5
XML structure	5
Table description	6
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: <ul style="list-style-type: none">true—Enabled

Column name	Column description	Column type	Data type and restrictions
			<ul style="list-style-type: none"> false—Disabled(default)
AuthenMethod	Authentication Method of 802.1X	N/A	Enumeration: <ul style="list-style-type: none"> 1—Chap(default) 2—PAP 3—EAP
DomainDelimiterAt	Delimiter "@" between username and domain name	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled(default) false—Disabled
DomainDelimiterSlash	Delimiter "/" between username and domain name	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled false—Disabled(default)
DomainDelimiterBackslash	Delimiter "\" between username and domain name	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled false—Disabled(default)
DomainDelimiterDot	Delimiter "." between username and domain	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled false—Disabled(default)
QuietEnable	Enable 802.1X quiet function	N/A	Boolean: <ul style="list-style-type: none"> 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.
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: <ul style="list-style-type: none">• 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

Item	Description
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. <ul style="list-style-type: none"> 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>
      <MulticastTrigger></MulticastTrigger>
      <UnicastTrigger></UnicastTrigger>
      <HandshakeEnable></HandshakeEnable>
      <SecHandshakeEnable></SecHandshakeEnable>
      <ReauthUnreachableMode></ReauthUnreachableMode>
      <MandDomain></MandDomain>
      <MaxUser></MaxUser>
      <FailVLAN></FailVLAN>
      <CriticalVLAN></CriticalVLAN>
    </Interface>
  </Interfaces>
</Dot1X>

```



```

    <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: <ul style="list-style-type: none"> true—Enabled false—Disabled(default)
SmartonEnable	Enable Smarton feature	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled false—Disabled(default)
PortControl	Port control status of the interface	N/A	Enumeration: <ul style="list-style-type: none"> 1—authorized-force 2—unauthorized-force 3—auto(default)
PortMethod	Control Method of the interface	N/A	Enumeration: <ul style="list-style-type: none"> 1—Portbased 2—MACbased(default)
ReauthenEnable	Enable periodic reauthentication feature	N/A	Boolean: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions
			Default Value is not configured.
HandshakeEnable	Enable handshake feature	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled(default) • false—Disabled
SecHandshakeEnable	Enable secure handshake feature	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled • false—Disabled(default)
ReauthUnreachableMode	Set user online or offline when the AAA server is not available during re-authenticating	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true—Enabled(default) • false—Disabled
UnicastTrigger	Enable unicast trigger function on the interface	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">true—Enabledfalse—Disabled

Column name	Column description	Column type	Data type and restrictions
AuthenMethod	Authentication Method of 802.1X	N/A	Enumeration: <ul style="list-style-type: none"> • 1—Chap • 2—PAP • 3—EAP
DomainDelimiterAt	Delimiter "@" between username and domain name	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled • false—Disabled
DomainDelimiterSlash	Delimiter "/" between username and domain name	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled • false—Disabled
DomainDelimiterBackslash	Delimiter "\" between username and domain name	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled • false—Disabled
DomainDelimiterDot	Delimiter "." between username and domain name	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled • false—Disabled
QuietEnable	Status Of Dot1X quiet function	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 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>
```


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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled false—Disabled
SmartonEnable	Enable Status of Smarton feature	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled false—Disabled
PortControl	Port control status of the interface	N/A	Enumeration: <ul style="list-style-type: none"> 1—authorized-force 2—unauthorized-force 3—auto
PortMethod	Control Method of the interface	N/A	Enumeration: <ul style="list-style-type: none"> 1—Portbased 2—MACbased
PortRole	Role of the interface in authentication	N/A	Enumeration: <ul style="list-style-type: none"> 1—Authenticator
ReauthenEnable	Enable Status of periodic reauthentication feature	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled false—Disabled
SecHandshakeEnable	Enable status of secure handshake feature on the interface	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled false—Disabled
ReauthUnreachableMode	Status of user online or offline when the AAA server is not available during re-authenticating	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled false—Disabled
UnicastTrigger	Enable status of unicast trigger function on the interface	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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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802.1X

802.1X/IF

Message	Explanation
Can't set a nonexistent VLAN as a guest VLAN. 无法将一个不存在的VLAN配置为Guest VLAN。	VLAN do not exist. 指定的VLAN不存在
Can't set a nonexistent VLAN as an Auth-Fail VLAN. 无法将一个不存在的VLAN配置为Auth-Fail VLAN。	VLAN do not exist. 指定的VLAN不存在
Can't set a nonexistent VLAN as a critical VLAN. 无法将一个不存在的VLAN配置为Critical VLAN。	VLAN do not exist. 指定的VLAN不存在
Failed to enable 802.1X on the interface, because it is a link aggregation member port 端口使能802.1X失败，因为端口为聚合口成员。	Failed to enable 802.1X on the interface, because it is a link aggregation member port 聚合口成员不能配置802.1X
Can't enable 802.1X for port security mode is configured on the port. 使能802.1X失败，因为该端口已经使能端口安全。	Can't enable 802.1X for port security mode is configured on the port. 使能802.1X失败，因为该端口已经使能端口安全。
Can't enable 802.1x for port security is enabled. 使能802.1x失败，因为已经使能端口安全。	Can't enable 802.1x for port security is enabled. 使能802.1x失败，因为已经使能端口安全。
Can't configure port-control for port security is enabled. 配置端口控制失败，因为已经使能端口安全。	Can't configure port-control for port security is enabled. 配置端口控制失败，因为已经使能端口安全。
Can't configure port-control for port security mode is configured on the port. 配置端口控制失败，因为该端口已经使能端口安全。	Can't configure port-control for port security mode is configured on the port. 配置端口控制失败，因为该端口已经使能端口安全。
Can't configure port-method for port security is enabled. 配置端口控制方式失败，因为已经使能端口安全。	Can't configure port-method for port security is enabled. 配置端口控制方式失败，因为已经使能端口安全。
Can't configure port-method for port security mode is configured on the port. 配置端口控制方式失败，因为该端口已经使能端口安全。	Can't configure port-method for port security mode is configured on the port. 配置端口控制方式失败，因为该端口已经使能端口安全。
Can't configure port-method for MAC authentication is enabled on the port. 配置端口控制方式失败，因为MACA认证已经使能。	Can't configure port-method for MAC authentication is enabled on the port. 配置端口控制方式失败，因为MACA认证已经使能。
The specified number must be higher than the current number of online users. 配置的最大用户数必须大于当前在线用户数。	The specified number must be higher than the current number of online users. 配置的最大用户数必须大于当前在线用户数。
Can't set a dynamic VLAN as an guest VLAN. 无法将一个动态VLAN配置成Guest VLAN。	Can't set a dynamic VLAN as an guest VLAN. 无法将一个动态VLAN配置成Guest VLAN。
Can't set a dynamic VLAN as a Auth-Fail VLAN.	Can't set a dynamic VLAN as a Auth-Fail VLAN.

无法将一个动态VLAN配置成Auth-Fail VLAN。	无法将一个动态VLAN配置成Auth-Fail VLAN。
Can't set a dynamic VLAN as a critical VLAN. 无法将一个动态VLAN配置成Critical VLAN。	Can't set a dynamic VLAN as a critical VLAN. 无法将一个动态VLAN配置成Critical VLAN。
Port security, MAC authentication, and 802.1X authentication are not supported on Layer 2 aggregate interfaces. 端口安全，MAC地址认证和802.1X认证不支持在二层以太网聚合接口上配置。	Port security, MAC authentication, and 802.1X authentication are not supported on Layer 2 aggregate interfaces. 端口安全，MAC地址认证和802.1X认证不支持在二层以太网聚合接口上配置。

802.1X /FreeIp

Message	Explanation
The maximum number of free-IP segments has reached. Free-IP 片段的最大数目无法达到。.	The maximum number of free-IP segments has reached. Free-IP 片段数超限。
Invalid IP address or subnet mask. 无效的IP地址或子网掩码。	Invalid IP address or subnet mask. 无效的IP地址或子网掩码。

802.1X /Protocol

Message	Explanation
Can't enable 802.1x for port security is enabled. 使能802.1x失败，因为已经使能端口安全。	Can't enable 802.1x for port security is enabled. 使能802.1x失败，因为已经使能端口安全。
Can't disable 802.1X for port security is enabled. 去使能802.1x失败，因为已经使能端口安全。	Can't disable 802.1X for port security is enabled. 去使能802.1x失败，因为已经使能端口安全。

802.1X /EadAssist

Message	Explanation
Can't enable the EAD assistant function when MAC authentication is enabled globally. 使能EAD快速部署失败，因为已经使能MAC认证	Can't enable the EAD assistant function when MAC authentication is enabled globally. 使能EAD快速部署失败，因为已经使能MAC认证
Can't enable the EAD assistant function when port security is enabled globally. 使能EAD快速部署失败，因为已经使能端口安全	Can't enable the EAD assistant function when port security is enabled globally.. 使能EAD快速部署失败，因为已经使能端口安全

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DRNI

DRNI/Base

This table contains DRNI Base information.

XML structure

```
<DRNI>
  <Base>
    <SystemMAC></SystemMAC>
    <SystemPriority></SystemPriority>
    <SystemNumber></SystemNumber>
    <RestoreDelay></RestoreDelay>
    <AutoRecoveryReloadDelay></AutoRecoveryReloadDelay>
  </Base>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	Base
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
SystemMAC	DR system MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 0-1-0-1-0-1 Configure the same DR MAC address for the DR member devices in a DR system.
SystemPriority	DR system priority	N/A	Unsigned integer. Value range: 0 to 65535.	Configure the same DR system priority for the DR member devices in a DR system.
SystemNumber	DR system number	N/A	Unsigned integer. Value range: 1 or 2.	Assign different DR system numbers to the DR member devices in a DR system.

RestoreDelay	Data restoration interval in seconds	N/A	Unsigned integer. Value range: 1 to 3600. Default: 30.	N/A
AutoRecoveryReloadDelay	Reload delay timer in seconds for DR system auto-recovery	N/A	Unsigned integer. Value range: 240 to 3600.	N/A

DRNI/Role

This table contains DRNI Role information.

XML structure

```
<DRNI>
  <Role>
    <LocalRolePriority></LocalRolePriority>
  </Role>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	Role
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
LocalRolePriority	DR role priority of the local DR member device	N/A	Unsigned integer. Value range: 0 to 65535. Default: 32768.	The lower the value, the higher the priority.

DRNI/Keepalive

This table contains DRNI Keepalive information.

XML structure

```
<DRNI>
  <Keepalive>
    <IPV4Addr>
      <KeepaliveDestinationIPV4></KeepaliveDestinationIPV4>
      <KeepaliveSourceIPV4></KeepaliveSourceIPV4>
    </IPV4Addr>
    <IPV6Addr>
      <KeepaliveDestinationIPV6></KeepaliveDestinationIPV6>
      <KeepaliveSourceIPV6></KeepaliveSourceIPV6>
    </IPV6Addr>
    <KeepaliveUDPPort></KeepaliveUDPPort>
    <KeepaliveInterval></KeepaliveInterval>
    <KeepaliveTimeout></KeepaliveTimeout>
    <KeepaliveHoldTime></KeepaliveHoldTime>
    <VRF></VRF>
  </Keepalive>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	Keepalive
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
IPV4Addr	Source and destination IPv4 address of the keepalive link	Data structure	Members include: <ul style="list-style-type: none">KeepaliveDestinationIPV4.KeepaliveSourceIPV4.	N/A
KeepaliveDestinationIPV4	Destination IPv4 address of the keepalive link	N/A	String,dotted decimal notation.	Example: 1.1.1.1
KeepaliveSourceIPV4	Source IPv4 address of the keepalive link	N/A	String,dotted decimal notation.	Example: 1.1.1.2 This column must be with the KeepaliveDestinationIPV4 column.

IPv6Addr	Source and destination IPv6 address of the keepalive link	Data structure	Members include: <ul style="list-style-type: none"> KeepaliveDestinationIPv6. KeepaliveSourceIPv6. 	N/A
KeepaliveDestinationIPv6	Destination IPv6 address of the keepalive link	N/A	Hexadecimal string,colon-separated.	Example: 1:1::1:1
KeepaliveSourceIPv6	Source IPv6 address of the keepalive link	N/A	Hexadecimal string,colon-separated.	Example: 1:1::1:2 This column must be with the KeepaliveDestinationIPv6 column.
KeepaliveUDPPort	Keepalive destination UDP port	N/A	Unsigned integer. Value range: 1 to 65535. Default: 6400	The KeepaliveUDPPort must be with the IP address and KeepaliveUDPPort will be deleted when you delete IP address.
KeepaliveInterval	Keepalive interval in milliseconds	N/A	Unsigned integer Value range: 100 to 10000. Default: 1000.	N/A
KeepaliveTimeout	Keepalive timeout time in seconds	N/A	Unsigned integer. Value range: 3 to 20 Default: 5.	The DR keepalive timeout timer must be two times the DR keepalive interval at minimum.
KeepaliveHoldTime	Keepalive hold time in seconds	N/A	Unsigned integer. Value range: 3 to 10. Default: 3.	N/A
VRF	VRF instance name	N/A	String, case-sensitive. Length: 0 to 31 characters.	If the local device is on the public network, the length of the string is 0.

DRNI/IPPTable

This table contains information about IPP ports.

XML structure

```

<DRNI>
  <IPPTable>
    <IPP>
      <IPPNumer></IPPNumer>
      <IfIndex></IfIndex>
    </IPP>
  </IPPTable>
</DRNI>

```


Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPPNNumber	IPP ID	Index	Unsigned integer.	The IPP ID must be fixed at 1.
IfIndex	Interface index	N/A	Unsigned integer.	N/A

DRNI/DRPortTable

This table contains information about DR ports.

XML structure

```
<DRNI>
  <DRPortTable>
    <DRPort>
      <DRGroupId></DRGroupId>
      <IfIndex></IfIndex>
    </DRPort>
  </DRPortTable>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	DRPortTable
Table type	Multi-instance table
Row name	DRPort
Restrictions	None

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

Columns

Column name	Column description	Column type	Data type and restrictions
DRGroupId	DR group ID	Index	Unsigned integer. Value range: 1 to 1024.
IfIndex	IfIndex value of the Layer 2 aggregate interface	N/A	Unsigned integer.

DRNI/PortTable

This table contains information about DRNI ports.

XML structure

```

<DRNI>
  <PortTable>
    <Port>
      <IfIndex></IfIndex>
      <DrpShortPeriodEnable></DrpShortPeriodEnable>
    </Port>
  </PortTable>
</DRNI>

```

Table description

Item	Description
Feature name	DRNI
Table name	PortTable
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
IfIndex	Interface index	Index	Unsigned integer.

DrcpShortPeriodEnable	Short DRCP timeout timer flag	N/A	Boolean: <ul style="list-style-type: none"> • true—Enable the short DRCP timeout timer. • false—Disabled the short DRCP timeout timer.
-----------------------	-------------------------------	-----	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

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DRNI

DRNI/Base

This table contains DRNI Base information.

XML structure

```
<DRNI>
  <Base>
    <SystemMAC></SystemMAC>
    <SystemPriority></SystemPriority>
    <SystemNumber></SystemNumber>
    <RestoreDelay></RestoreDelay>
    <AutoRecoveryReloadDelay></AutoRecoveryReloadDelay>
  </Base>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SystemMAC	DR system MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 0-1-0-1-0-1. Configure the same DR MAC address for the DR member devices in a DR system.
SystemPriority	DR system priority	N/A	Unsigned integer. Value range: 0 to 65535.	Configure the same DR system priority for the DR member devices in a DR system.
SystemNumber	DR system number	N/A	Unsigned integer. Value range: 1 to 2.	Assign different DR system numbers to the DR member devices in a DR system.
RestoreDelay	Data restoration	N/A	Unsigned integer.	N/A

	interval in seconds		Value range: 1 to 3600.	
AutoRecoveryReloadDelay	Reload delay timer in seconds for DR system auto-recovery	N/A	Unsigned integer. Value range: 240 to 3600.	N/A

DRNI/Role

This table contains DRNI Role information.

XML structure

```
<DRNI>
  <Role>
    <LocalRolePriority></LocalRolePriority>
    <PeerRolePriority></PeerRolePriority>
    <LocalBridgeMAC></LocalBridgeMAC>
    <PeerBridgeMAC></PeerBridgeMAC>
    <LocalConfiguredRole></LocalConfiguredRole>
    <PeerConfiguredRole></PeerConfiguredRole>
    <LocalEffectiveRole></LocalEffectiveRole>
    <PeerEffectiveRole></PeerEffectiveRole>
  </Role>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	Role
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalRolePriority	DR role priority of the local DR member device	N/A	Unsigned integer. Value range: 0 to 65535.	The lower the value,the higher the priority.
PeerRolePriority	DR role priority of the peer DR member device	N/A	Unsigned integer. Value range: 0 to 65535.	The lower the value,the higher the priority.

LocalBridgeMAC	Bridge MAC address of the local DR member device	N/A	Six groups of two hexadecimal digits,hyphen-separated.	N/A
PeerBridgeMAC	Bridge MAC address of the peer DR member device	N/A	Six groups of two hexadecimal digits,hyphen-separated.	N/A
LocalConfiguredRole	DR role calculated based on the role priority and bridge MAC address of the local DR member device	N/A	Enumeration: <ul style="list-style-type: none"> 0—none. 1—primary. 2—secondary. 	N/A
PeerConfiguredRole	DR role calculated based on the role priority and bridge MAC address of the peer DR member device	N/A	Enumeration: <ul style="list-style-type: none"> 0—none. 1—primary. 2—secondary. 	N/A
LocalEffectiveRole	Current role of the local DR member device	N/A	Enumeration: <ul style="list-style-type: none"> 0—none. 1—primary. 2—secondary. 	N/A
PeerEffectiveRole	Current role of the peer DR member device	N/A	Enumeration: <ul style="list-style-type: none"> 0—none. 1—primary. 2—secondary. 	N/A

DRNI/Keepalive

This table contains DRNI Keepalive information.

XML structure

```

<DRNI>
  <Keepalive>
    <IPV4Addr>
      <KeepaliveDestinationIPV4></KeepaliveDestinationIPV4>
      <KeepaliveSourceIPV4></KeepaliveSourceIPV4>
    </IPV4Addr>
    <IPV6Addr>
      <KeepaliveDestinationIPV6></KeepaliveDestinationIPV6>
      <KeepaliveSourceIPV6></KeepaliveSourceIPV6>
    </IPV6Addr>
    <KeepaliveUDPPort></KeepaliveUDPPort>
    <KeepaliveInterval></KeepaliveInterval>
    <KeepaliveTimeout></KeepaliveTimeout>
  </Keepalive>
</DRNI>

```



```

    <KeepaliveHoldTime></KeepaliveHoldTime>
    <KeepaliveLinkStatus></KeepaliveLinkStatus>
    <VRF></VRF>
  </Keepalive>
</DRNI>

```

Table description

Item	Description
Feature name	DRNI
Table name	Keepalive
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Addr	Source and destination IPv4 address of the keepalive link	Data structure	Members include: <ul style="list-style-type: none"> KeepaliveDestinationIPv4. KeepaliveSourceIPv4. 	N/A
KeepaliveDestinationIPv4	Destination IPv4 address of the keepalive link	N/A	String,dotted decimal notation.	Example: 1.1.1.1
KeepaliveSourceIPv4	Source IPv4 address of the keepalive link	N/A	String,dotted decimal notation.	Example: 1.1.1.2 This column must be with the KeepaliveDestinationIPv4 column.
IPv6Addr	Source and destination IPv6 address of the keepalive link	Data structure	Members include: <ul style="list-style-type: none"> KeepaliveDestinationIPv6. KeepaliveSourceIPv6. 	N/A
KeepaliveDestinationIPv6	Destination IPv6 address of the keepalive link	N/A	Hexadecimal string,colon-separated.	Example: 1:1::1:1
KeepaliveSourceIPv6	Source IPv6 address of the keepalive link	N/A	Hexadecimal string,colon-separated.	Example: 1:1::1:2 This column must be with the KeepaliveDestinationIPv6 column.
KeepaliveUDPPort	Keepalive destination UDP port	N/A	Unsigned integer. Value range: 1 to 65535.	The KeepaliveUDPPort must be with the IP address and KeepaliveUDPPort will be deleted when you

				delete IP address.
KeepaliveInterval	Keepalive Interval in milliseconds	N/A	Unsigned integer. Value range: 100 to 10000.	N/A
KeepaliveTimeout	Keepalive timeout time in seconds	N/A	Unsigned integer. Value range: 3 to 20.	The DR keepalive timeout timer must be two times the DR keepalive interval at minimum.
KeepaliveHoldTime	Keepalive hold time in seconds	N/A	Unsigned integer. Value range: 3 to 10.	N/A
KeepaliveLinkStatus	Keepalive link status	N/A	Enumeration: <ul style="list-style-type: none"> 0—unknown. 1—up. 2—down. 	N/A
VRF	VPN instance name	N/A	String, case-sensitive. Length: 0 to 31 characters.	If the local device is on the public network, the length of the string is 0.

DRNI/IPPTable

This table contains DRNI IPP information

XML structure

```

<DRNI>
  <IPPTable>
    <IPP>
      <IPPNNumber></IPPNNumber>
      <IfIndex></IfIndex>
    </IPP>
  </IPPTable>
</DRNI>

```

Table description

Item	Description
Feature name	DRNI
Table name	IPPTable
Table type	Multi -instance table
Row name	IPP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPPNNumber	IPP ID	Index	Unsigned integer. Value range: 1.	The IPP ID must be fixed at 1.
IfIndex	Interface index	N/A	Unsigned integer.	N/A

DRNI/DRPortTable

This table contains information about DR ports.

XML structure

```
<DRNI>
  <DRPortTable>
    <DRPort>
      <DRGroupId></DRGroupId>
      <IfIndex></IfIndex>
    </DRPort>
  </DRPortTable>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	DRPortTable
Table type	Multi-instance table
Row name	DRPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
DRGroupId	DR group ID	Index	Unsigned integer. Value range: 1 to 1024.
IfIndex	IfIndex value of the Layer 2 aggregate interface	N/A	Unsigned integer.

DRNI/PortTable

This table contains information about DRNI ports.

XML structure

```
<DRNI>
  <PortTable>
    <Port>
      <IfIndex></IfIndex>
      <DrpcShortPeriodEnable></DrpcShortPeriodEnable>
      <PortStatus></PortStatus>
      <LocalDRCPState></LocalDRCPState>
      <PeerDRCPState></PeerDRCPState>
      <LocalSelectedMemberList></LocalSelectedMemberList>
      <PeerSelectedMemberList></PeerSelectedMemberList>
    </Port>
  </PortTable>
</DRNI>
```

Table description

Item	Description
Feature name	DRNI
Table name	PortTable
Table type	Multi-instance table
Row name	Port
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
IfIndex	Interface index	Index	Unsigned integer.
DrpcShortPeriodEnable	Short DRCP timeout timer flag	N/A	Boolean: <ul style="list-style-type: none">true—Enable the short DRCP timeout timer.false—Disabled the short DRCP timeout timer.
PortStatus	Port status	N/A	Enumeration: <ul style="list-style-type: none">0—down.1—up.
LocalDRCPState	DRCP state on the local port	N/A	DRCP state flags. The flag field is one byte long, represented by ABCDEFGH from the

			<p>lowest bit to the highest bit. A letter is displayed when its bit is 1 and is not displayed when its bit is 0.</p> <ul style="list-style-type: none"> • A—Indicates whether DRCP is enabled on the local device. 1 indicates enabled. 0 indicates disabled. • B—Indicates whether DRCP is enabled on the DR peer. 1 indicates enabled. 0 indicates disabled. • C—Indicates whether DRCP is enabled on a third DR member device. 1 indicates enabled. 0 indicates disabled. • D—Indicates whether the local IPP has determined that DRCP is enabled on the DR peer. 1 indicates yes. 0 indicates no. • E—Indicates the DRCP timeout timer. 1 indicates the short timeout timer. 0 indicates the long timeout timer. • F—Indicates whether the local IPP permits the packets that contain the negotiated gateway conversation IDs. 1 indicates yes. 0 indicates no. • G—Indicates whether the local IPP permits the packets that contain the negotiated port conversation IDs. 1 indicates yes. 0 indicates no. • H—Indicates whether the local DRCPDU receive machine is in default or expired state. 1 indicates yes. 0 indicates no.
PeerDRCPState	DRCP state on the peer port	N/A	This column has the same data type and restrictions as LocalDRCPState .
LocalSelectedMemberList	Local DR member device's selected aggregate member ports in a distributed relay group	N/A	<p>Bitmap. No length restrictions.</p> <p>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</p>

			the highest numbered port.Each port of the bridge is represented by a single bit within the value of this object.If a bit has a value of 1 then the port is included in the set of ports;a port is not included if its bit has a value of 0.
PeerSelected MemberList	Peer DR member device's selected aggregate member ports in a distributed relay group	N/A	This column has the same data type and restrictions as LocalSelectedMemberList .

Contents

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 - DRNI/Base2
 - DRNI/Role2
 - DRNI/Keepalive.....2
 - DRNI/IPPTable.....3
 - DRNI/DRPortTable.....3
 - DRNI/PortTable3

DRNI

DRNI/Base

Message	Explanation
The MAC address cannot be an all-zero address, a multicast address, or a broadcast address. 不允许配置MAC地址为全零MAC地址、组播MAC地址或广播MAC地址。	The system MAC address cannot be an all-zero address, a multicast address, or a broadcast address.

DRNI/Role

Message	Explanation
None. 无。	None.

DRNI/Keepalive

Message	Explanation
Please specify the destination IP addresses of keepalive packets. 指定Keepalive报文的目的IP地址。	Specify the destination IP address of keepalive link.
The destination and source IP addresses cannot be the same. 目的IP地址和源IP地址不能相同。	The destination address must be different from the source.
You cannot specify both IPv4 and IPv6 addresses for keepalive packets. 不能同时指定IPv4地址和IPv6地址。	The destination and source address of keepalive link must be the same family.
Invalid destination or source IP address. 无效的源/目的IP地址。	The IP address is invalid,keepalive must config with a legal address.
Please delete all parameters of keepalive configuration. 请删除所有的keepalive配置参数。	You need to delete all parameters.
The source and destination IP addresses of keepalive packets must have the same internet protocol version. Keepalive报文的源IP地址和目的IP地址必须使用相同的IP地址协议。	The family of destination and source address must be the same.

DRNI/IPPTable

Message	Explanation
The interface is already configured as a DR interface. 该接口已经是DR口。	The interface is a DR interface, you can't configure to an IPP again.
The device already has an IPP. 设备已经存在一个IPP口。	A device can only configure an IPP.
Please specify a valid interface index. 对于merge、create、replace操作，请指定有效的接口索引。	The ifindex must set to a interface exist.
The interface must be a Layer 2 aggregate interface or tunnel interface. 该接口必须是二层聚合接口或Tunnel接口。	The IPP must configure to a Layer 2 aggregate interface or tunnel interface.

DRNI/DRPortTable

Message	Explanation
The interface is already configured as a DR interface. 该接口已经是DR口。	The interface is with another DR id.
The interface is already configured as an IPP. 该接口已经是IPP口。	The interface is already a IPP,you can not.set it to a DR interface again.
The interface must be a Layer 2 aggregate interface. 该接口必须是二层聚合接口。	The DR id must set to a Layer 2 aggregate interface.
The DR group with the specified ID is already configured on another interface. 该DR口ID已经存在。	A device can not have two group with the same DR id.
Please specify a valid interface index. 对于merge、create、replace操作，请指定有效的接口索引。	The ifindex must set to a interface exist.

DRNI/PortTable

Message	Explanation
None. 无。	None.

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XML structure for event subscription	2
XML structure for event report	3
PortInfoEvent event.....	3
XML structure for event subscription	3
XML structure for event report	4

DRNI event stream

BaseInfoEvent event

This event is used to report DRNI BaseInfo.

XML structure for event subscription

```
<BaseInfoEvent>
</BaseInfoEvent>
```

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>DRNI</stream>
    <filter type="subtree">
      <BaseInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/DRNI:1.0">
      </BaseInfoEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	DRNI
Event name	BaseInfoEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/DRNI:1.0
Support for extended query	No

XML structure for event report

```
<BaseInfoEvent>
  <BaseInfo>
    <SystemMAC></SystemMAC>
    <OperationType></OperationType>
  </BaseInfo>
</BaseInfoEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <BaseInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/DRNI:1.0">
    <BaseInfo>
      <SystemMAC>00-01-00-01-00-01</SystemMAC>
      <OperationType>1</OperationType>
```



```

        </BaseInfo>
    </BaseInfoEvent>
</notification>

```

Table description

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
SystemMAC	DR system MAC address	Six groups of two hexadecimal digits, hyphen-separated. Example: 00-01-00-01-00-01.	No	You must configure the same DR system MAC address for the DR member devices in a DR system.
OperationType	Operation type	Enumeration: <ul style="list-style-type: none"> 1—Create. 2—Modify. 3—Delete. 	No	The operation type specifies the operation that DRNI BaseInfo should perform.

RoleInfoEvent event

This event is used to report DRNI RoleInfo.

XML structure for event subscription

```

<RoleInfoEvent>
</RoleInfoEvent>

```

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>DRNI</stream>
        <filter type="subtree">
            <RoleInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/DRNI:1.0">
                </RoleInfoEvent>
            </filter>
        </create-subscription>
    </rpc>

```

Table description

Item	Description
Event stream name	DRNI
Event name	RoleInfoEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/DRNI:1.0
Support for extended query	No

XML structure for event report

```
<RoleInfoEvent>
  <LocalBridgeMAC></LocalBridgeMAC>
  <PeerBridgeMAC></PeerBridgeMAC>
</RoleInfoEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <RoleInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/DRNI:1.0">
    <RoleInfo>
      <LocalBridgeMAC>00-01-00-01-00-01</LocalBridgeMAC>
      <PeerBridgeMAC>00-01-00-01-00-03</PeerBridgeMAC>
    </RoleInfo>
  </RoleInfoEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Support for extended query
LocalBridgeMAC	Bridge MAC address of the local device	Six groups of two hexadecimal digits, hyphen-separated. Example: 00-01-00-01-00-01.	No
PeerBridgeMAC	Bridge MAC address of the peer device	Six groups of two hexadecimal digits, hyphen-separated. Example: 00-01-00-01-00-01.	No

PortInfoEvent event

This event is used to report DRNI PortInfo.

XML structure for event subscription

```
<PortInfoEvent>
</PortInfoEvent>
```

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>DRNI</stream>
    <filter type="subtree">
      <PortInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/DRNI:1.0">
        </PortInfoEvent>
      </filter>
    </create-subscription>
  </rpc>
```


Table description

Item	Description
Event stream name	DRNI
Event name	PortInfoEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/DRNI:1.0
Support for extended query	No

XML structure for event report

```
<PortInfoEvent>
  <PortInfo>
    <IfIndex></IfIndex>
    <DRGroupId></DRGroupId>
    <OperationType></OperationType>
  </PortInfo>
</PortInfoEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <PortInfoEvent xmlns="http://www.h3c.com/netconf/event:1.0/DRNI:1.0">
    <PortInfo>
      <IfIndex>66</IfIndex>
      <DRGroupId>66</DRGroupId>
      <OperationType>1</OperationType>
    </PortInfo>
  </PortInfoEvent>
</notification>
```

Table description

Column name	Column description	Data type and restrictions	Support for extended query	Remarks
IfIndex	Aggregation interface ifIndex	Unsigned integer.	No	Interface name is not supported.
DRGroupId	DR group ID	Unsigned integer. Value range: 1 to 1024.	No	N/A
OperationType	Operation type	Enumeration: <ul style="list-style-type: none">1—Create.2—Modify.3—Delete.	No	The operation type specifies the operation that DNRI PortInfo should perform.

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- DropStatistics 1
 - DropStatistics/ClearAppStatistics 1
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 - XML structure.....2
 - Table description.....2
 - Columns.....2

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			

DropStatistics/ExportPacket

This table is used to export captured packets to a file.

XML structure

```
<DropStatistics>
  <ExportPacket>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <AppName></AppName>
  </ExportPacket>
</DropStatistics>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	ID of the member where the interface resides	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID of the interface	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	N/A	Unsigned integer. Value range: 0 to 7.	N/A
AppName	Name of the application	N/A	String. Length: 1 to 15 characters.	This column is required.

Contents

- DropStatistics 1
 - DropStatistics/StatisticsCfg 1
 - XML structure 1
 - Table description 1
 - Columns 1

DropStatistics

DropStatistics/StatisticsCfg

This table contains the dropped-packet statistics settings.

XML structure

```
<DropStatistics>
  <StatisticsCfg>
    <FilterType></FilterType>
    <SrcAddress></SrcAddress>
    <DstAddress></DstAddress>
    <UserName></UserName>
    <DomainName></DomainName>
  </StatisticsCfg>
</DropStatistics>
```

Table description

Item	Description
Feature name	DropStatistics
Table name	StatisticsCfg
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
FilterType	Filter type	N/A	Enumeration: <ul style="list-style-type: none">0—Does not filter.1—Filters by address.2—Filters by user.	Leaving this column empty has the same effect as setting it to 0 .
SrcAddress	Source 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.
DstAddress	Destination address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string,	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
			colon-separated.	
UserName	Username	N/A	String, case sensitive. Length: 1 to 55 characters.	N/A
DomainName	Domain name	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A

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Table description	8
Columns	8
DropStatistics/DetailIPCounts	9
XML structure	9
Table description	9
Columns	10

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

Column name	Column description	Column type	Data type and restrictions	Remarks
AppName	Name of the Application	Index	String. Length: 1 to 15 characters.	N/A
AppDetailString	Details of the application's packet loss.	N/A	String.	Separate the packet loss types with comma(.). Separate the type and value with colon(:). Can not contain spaces.

DropStatistics/AppSupportInfos

This table contains support of applications for packet capture.

XML structure

```

<DropStatistics>
  <AppSupportInfos>
    <AppSupportInfo>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <AppName></AppName>
      <SupportPktCapture></SupportPktCapture>
    </AppSupportInfo>
  </AppSupportInfos>
</DropStatistics>

```

Table description

Item	Description
Feature name	DropStatistics
Table name	AppSupportInfos
Table type	Multi-instance table
Row name	AppSupportInfo
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

Column name	Column description	Column type	Data type and restrictions	Remarks
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	Index	String. Length: 1 to 15 characters.	N/A
SupportPktCapture	Support for packet capture	N/A	Boolean: <ul style="list-style-type: none"> true—Supports packet capture. false—Does not support packet capture. 	N/A

DropStatistics/AppDropAddresses

This table contains dropped-packet statistics for connections of features.

XML structure

```

<DropStatistics>
  <AppDropAddresses>
    <AppDropAddress>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <AppName></AppName>
      <SrcAddress></SrcAddress>
      <DstAddress></DstAddress>
      <UserName></UserName>
      <DomainName></DomainName>
      <OriginalNum></OriginalNum>
      <ReplyNum></ReplyNum>
    </AppDropAddress>
  </AppDropAddresses>
</DropStatistics>

```

Table description

Item	Description
Feature name	DropStatistics
Table name	AppDropAddresses
Table type	Multi-instance table
Row name	AppDropAddress
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	Feature name	Index	String. Length: 1 to 15 characters.	N/A
SrcAddress	Source address	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.
DstAddress	Destination address	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.
UserName	Username	N/A	String, case sensitive. Length: 1 to 55 characters.	N/A
DomainName	Domain name	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A
OriginalNum	Number of packets dropped for original	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
ReplyNum	Number of packets dropped for reply	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

DropStatistics/AppDetailDropAddresses

This table contains detailed dropped-packet statistics for connections of features.

XML structure

```

<DropStatistics>
  <AppDetailDropAddresses>
    <AppDetailDropAddress>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <AppName></AppName>
    
```



```

    <DropReason></DropReason>
    <SrcAddress></SrcAddress>
    <DstAddress></DstAddress>
    <UserName></UserName>
    <DomainName></DomainName>
    <OriginalNum></OriginalNum>
    <ReplyNum></ReplyNum>
  </AppDetailDropAddress>
</AppDetailDropAddresses>
</DropStatistics>

```

Table description

Item	Description
Feature name	DropStatistics
Table name	AppDetailDropAddresses
Table type	Multi-instance table
Row name	AppDetailDropAddress
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	Feature name	Index	String. Length: 1 to 15 characters.	N/A
DropReason	Drop reason	Index	String. Length: 1 to 63 characters.	N/A
SrcAddress	Source address	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.
DstAddress	Destination address	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.
UserName	Username	N/A	String, case sensitive. Length: 1 to 55 characters.	N/A

DomainName	Domain name	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A
OriginalNum	Number of packets dropped for original	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
ReplyNum	Number of packets dropped for reply	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

DropStatistics/StatisticsCfg

This table contains the dropped-packet statistics settings.

XML structure

```
<DropStatistics>
  <StatisticsCfg>
    <FilterType></FilterType>
    <SrcAddress></SrcAddress>
    <DstAddress></DstAddress>
    <UserName></UserName>
    <DomainName></DomainName>
  </StatisticsCfg>
</DropStatistics>
```

Table description

Item	Description
Feature name	DropStatistics
Table name	StatisticsCfg
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FilterType	Filter type	N/A	Enumeration: <ul style="list-style-type: none"> 0—Does not filter. 1—Filter by address. 2—Filters by user. 	Leaving this column empty has the same effect as setting it to 0 .
SrcAddress	Source address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string,	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
			colon separated.	
DstAddress	Destination 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.
UserName	UserName	N/A	String, case sensitive. Length: 1 to 55 characters.	N/A
DomainName	DomainName	N/A	String, case insensitive. Length: 1 to 255 characters.	N/A

DropStatistics/SummaryIPCounts

This table is used to obtain the number of connections of a feature for which dropped-packet statistics are configured.

XML structure

```

<DropStatistics>
  <SummaryIPCounts>
    <SummaryIPCount>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <AppName></AppName>
      <Count></Count>
    </SummaryIPCount>
  </SummaryIPCounts>
</DropStatistics>

```

Table description

Item	Description
Feature name	DropStatistics
Table name	SummaryIPCounts
Table type	Multi-instance table
Row name	SummaryIPCount
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Chassis	ID of the member	Index	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	where the interface resides		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.
AppName	Feature name	Index	String. Length: 1 to 15 characters.
Count	Number of connections of a feature for which dropped-packet statistics are configured	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.

DropStatistics/DetailIPCounts

This table is used to obtain the number of connections of a feature that have packets dropped due to a specific reason.

XML structure

```

<DropStatistics>
  <DetailIPCounts>
    <DetailIPCount>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <AppName></AppName>
      <DropReason></DropReason>
      <Count></Count>
    </DetailIPCount>
  </DetailIPCounts>
</DropStatistics>

```

Table description

Item	Description
Feature name	DropStatistics
Table name	DetailIPCounts
Table type	Multi-instance table
Row name	DetailIPCount
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
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.
AppName	Feature name	Index	String. Length: 1 to 15 characters.
DropReason	Drop reason	Index	String. Length: 1 to 63 characters.
Count	Number of connections of a feature that have packets dropped due to a specific reason	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.

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XML structure	4
Table description	4
Columns	5

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: <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 0—STRICT 1—LOOSE
IsUserVlanMode	VLAN termination mode	N/A	Boolean: <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> • 0—STRICT • 1—LOOSE
IsUserVlanMode	VLAN termination mode	N/A	Boolean: <ul style="list-style-type: none"> • true—user-vlan. • false—vlan-type. 	Some versions might not support this column.

ETH/UnderlayForwardBypass

This table contains underlay forward bypass information.

XML structure

```

<ETH>
  <UnderlayForwardBypass>
    <Bypass>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </Bypass>
  </UnderlayForwardBypass>
</ETH>

```

Table description

Item	Description
Feature name	ETH
Table name	UnderlayForwardBypass
Table type	Multi-instance table

Item	Description
Row name	Bypass
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.	Only Layer 3 physical 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.
Enable	Specifies the action of whether or not to bypass the VXLAN packets from ETH.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable the function. false—Disable the function. 	N/A

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XML structure	3
Table description	4
Columns	4
ETH/UnderlayForwardBypass	5
XML structure	5
Table description	5
Columns	5

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: <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 0—STRICT 1—LOOSE
IsUserVlanMode	VLAN termination mode	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false
SupportQinq	Whether Qinq termination is supported	N/A	Boolean: <ul style="list-style-type: none"> true false
SupportUntagged	Whether Untagged termination is supported	N/A	Boolean: <ul style="list-style-type: none"> true false
SupportDefault	Whether Default termination is supported	N/A	Boolean: <ul style="list-style-type: none"> true false
SupportLoose	Whether the subinterface supports terminating packets that include one or more layers of VLAN tags.	N/A	Boolean: <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 0—STRICT 1—LOOSE
IsUserVlanMode	VLAN termination mode	N/A	Boolean: <ul style="list-style-type: none"> true—user-vlan. false—vlan-type. 	Some versions might not support this column.

ETH/UnderlayForwardBypass

This table contains underlay forward bypass information.

XML structure

```

<ETH>
  <UnderlayForwardBypass>
    <Bypass>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </Bypass>
  </UnderlayForwardBypass>
</ETH>

```

Table description

Item	Description
Feature name	ETH
Table name	UnderlayForwardBypass
Table type	Multi-instance table
Row name	Bypass
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	Only Layer 3 physical interfaces are supported. 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.
Enable	Specifies the action of whether or not to bypass the VXLAN packets from ETH.	N/A	Boolean: <ul style="list-style-type: none"> • true—Enable the function. • false—Disable the function. 	N/A

Contents

- FCFabric 1
 - FCFabric/SmartSANStatus 1
 - XML structure 1
 - Table description 1
 - Columns 1

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: <ul style="list-style-type: none">• true—Enabled.• false—Disabled(default).
iSCSIStatus	Status of Smart SAN for iSCSI.	N/A	Boolean: <ul style="list-style-type: none">• true—Enabled.• false—Disabled(default).

Contents

- FCFabric1
 - FCFabric/SmartSANStatus1
 - XML structure1
 - Table description.....1
 - Columns.....1

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: <ul style="list-style-type: none">• true—Enabled.• false—Disabled.
iSCSIStatus	Status of Smart SAN for iSCSI.	N/A	Boolean: <ul style="list-style-type: none">• true—Enabled.• false—Disabled.

Contents

- FCLink1
 - FCLink/PortEntryInfo1
 - XML structure1
 - Table description1
 - Columns1

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 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.

Contents

- FCZone.....1
 - FCZone/ZoneStatus1
 - XML structure.....1
 - Table description.....1
 - Columns.....1

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: <ul style="list-style-type: none">1—Deny(default).2—Permit.
Mode	Zoning mode.	N/A	Enumeration: <ul style="list-style-type: none">1—Basic zoning(default).2—Enhanced zoning.

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FCZone/ActiveZones	2
XML structure	2
Table description.....	2
Columns.....	2
FCZone/ActiveZoneMembers	3
XML structure	3
Table description.....	3
Columns.....	4

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: <ul style="list-style-type: none">1—Deny.2—Permit.	N/A
Mode	Zoning mode.	N/A	Enumeration: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true. false. 	N/A.
ZoneMemberPrincipalFlag	Whether the zone member is a principal member in a peer zone.	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	This column is displayed only when the zone type is peer zone.
ZoneMemberType	Zone member type.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—initiator and target. 1—initiator. 2—target. 	N/A.

Contents

- FDMI1
 - FDMI/RDPIInterval1
 - XML structure1
 - Table description1
 - Columns1

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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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: <ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> • 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	<p>Each bit represents a type.</p> <p>As follows:</p> <ul style="list-style-type: none"> • 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	<p>Data transmission using Base64 encoding, decoding is as follows:</p> <p>Bitmap. Length: 256 bits.</p> <p>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.</p>	N/A
PortActiveFC4Types	Active FC-4 types of the port.	N/A	<p>Data transmission using Base64 encoding, decoding is as follows:</p> <p>Bitmap. Length: 256 bits.</p> <p>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.</p>	N/A
SupportedSpeed	Supported speed.	N/A	<p>Each bit represents a speed.</p> <p>As follows:</p> <ul style="list-style-type: none"> • 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	<p>Each bit represents a speed. As follows:</p> <ul style="list-style-type: none"> • 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	<p>Five groups of hexadecimal digits, hyphen-separated. Format: XXXXXXXX-XXXX-XXXX-XXX X-XXXXXXXXXXXX</p>	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: <ul style="list-style-type: none"> 1—Physical. 2—NPIV. 3—SRIOV. Other—Unknown. 	N/A
SmartSANQoSsupport	Smart SAN QoS support.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Not supported. 1—Supported. Other—Unknown. 	N/A
SmartSANSecuritySupport	Smart SAN security support.	N/A	Enumeration: <ul style="list-style-type: none"> 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>
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  <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>
<SFPFECActive></SFPFECActive>
</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>
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  <LaneIdentifier></LaneIdentifier>
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  <QSFPTxBiasLAlarm></QSFPTxBiasLAlarm>
  <QSFPTxBiasHWarn></QSFPTxBiasHWarn>
  <QSFPTxBiasLWarn></QSFPTxBiasLWarn>
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  <Lane0TxBiasState></Lane0TxBiasState>
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  <Lane1TxBiasState></Lane1TxBiasState>
  <Lane2TxBias></Lane2TxBias>
  <Lane2TxBiasState></Lane2TxBiasState>
  <Lane3TxBias></Lane3TxBias>
  <Lane3TxBiasState></Lane3TxBiasState>
  <QSFPTxPowerHAlarm></QSFPTxPowerHAlarm>
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  <QSFPTxPowerHWarn></QSFPTxPowerHWarn>
  <QSFPTxPowerLWarn></QSFPTxPowerLWarn>
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  <Lane0TxPowerState></Lane0TxPowerState>
  <Lane1TxPower></Lane1TxPower>
  <Lane1TxPowerState></Lane1TxPowerState>
  <Lane2TxPower></Lane2TxPower>
  <Lane2TxPowerState></Lane2TxPowerState>
  <Lane3TxPower></Lane3TxPower>
  <Lane3TxPowerState></Lane3TxPowerState>
  <QSFP RxPowerHAlarm></QSFP RxPowerHAlarm>
  <QSFP RxPowerLAlarm></QSFP RxPowerLAlarm>
  <QSFP RxPowerHWarn></QSFP RxPowerHWarn>

```



```

    <QSFP RxPowerLWarn></QSFP RxPowerLWarn>
    <Lane0RxPower></Lane0RxPower>
    <Lane0RxPowerState></Lane0RxPowerState>
    <Lane1RxPower></Lane1RxPower>
    <Lane1RxPowerState></Lane1RxPowerState>
    <Lane2RxPower></Lane2RxPower>
    <Lane2RxPowerState></Lane2RxPowerState>
    <Lane3RxPower></Lane3RxPower>
    <Lane3RxPowerState></Lane3RxPowerState>
    <QSFP PortTxType></QSFP PortTxType>
    <QSFP OpticalPort></QSFP OpticalPort>
    <QSFP ConnectorType></QSFP ConnectorType>
    <QSFP FECActive></QSFP FECActive>
  </QSFPDiagnosticsParameters>
  <FECStatusDescriptor>
    <CorrectedBlocks></CorrectedBlocks>
    <UnCorrectableBlocks></UnCorrectableBlocks>
  </FECStatusDescriptor>
  <BufferCredit>
    <BBCredit></BBCredit>
    <AttachedBBCredit></AttachedBBCredit>
    <RoundTripTime></RoundTripTime>
  </BufferCredit>
  <OpticalProductData>
    <VendorName></VendorName>
    <Partnumber></Partnumber>
    <Serialnumber></Serialnumber>
    <Revision></Revision>
    <Date></Date>
  </OpticalProductData>
</Descriptor>
</DiagnosticParameterDescriptors>
</FDMI>

```

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: <ul style="list-style-type: none"> SpeedCapabilities. OperatingSpeed. 	N/A
SpeedCapabilities	Port speed capabilities.	N/A	Each bit represents a port speed capability. As follows: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	<p>Members include:</p> <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 0—Valid. 1—Invalid. 	<p>If the value is 1, the following columns are not valid:</p> <ul style="list-style-type: none"> 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	<p>Each bit represents a type.</p> <p>As follows:</p> <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Other or unknown. 64—SFP+. Other—Reserved. 	N/A
SFPFECActive	State of FEC active	N/A	Enumeration: <ul style="list-style-type: none"> 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	<p>Members include:</p> <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 0—Valid. 1—Invalid. 	If the value is 1, the following columns are invalid: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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	<p>Each bit represents a type. As follows:</p> <ul style="list-style-type: none"> 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 RxPowerHAlarm	High alarm of RxPower of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A
QSFP RxPowerLAlarm	Low alarm of RxPower of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A
QSFP RxPowerHWarn	High warning of RxPower of a lane.	N/A	Unsigned short. Unit is 0.1uW.	N/A
QSFP RxPowerLWarn	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	<p>Each bit represents a type. As follows:</p> <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Other or unknown. 1—Short Wave Laser. 2—Long Wave Laser LC. 	N/A
QSFPOpticalPort	Optical port flag.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Other or unknown. 64—QSFP. Other—Reserved. 	N/A
QSFPFECActive	State of FEC active.	N/A	Enumeration: <ul style="list-style-type: none"> 0—16G FEC status is inactive or unknown. 1—16G FEC is active. 	N/A
FECStatusDescriptor	FEC status descriptor.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
  <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

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—upload 1—download 2—both 	Default is 0.
Action	Action for packets matching the rule	N/A	Enumeration: <ul style="list-style-type: none"> 0—drop 1—permit 	Default is 0.
Logging	Logging or not	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—permit 1—drop 	Default is 0.

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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>
```



```

    <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—upload 1—download 2—both 	Default is 0.
Action	Action for packets matching the rule	N/A	Enumeration: <ul style="list-style-type: none"> 0—drop 1—permit 	Default is 0.
Logging	Logging or not	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—permit 1—drop 	Default is 0.

FFILTER/FileTypes

This table contains the information of file types.

XML structure

```

<FFILTER>
  <FileTypes>
    <FileTypeInfo>
      <FileName></FileName>
      <PatternName></PatternName>
    </FileTypeInfo>
  </FileTypes>
</FFILTER>

```

Table description

Item	Description
Feature name	FFILTER
Table name	FileTypes
Table type	Multi-instance table
Row name	FileTypeInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the file type	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

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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	NameString Length: 1 to 4096 characters.	N/A
DstName	Full path and file name. For examples: flash:/logfile/logfile.log chassis3#slot1#cfa0:/main.cfg	N/A	NameString Length: 1 to 4096 characters.	N/A
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.	N/A
UnReservedDelete	Delete a file permanently.	N/A	This column must be empty.	N/A
Copy	Copy a file.	N/A	This column must be empty. DstName column must not be empty.	N/A
Move	Move a file.	N/A	This column must be empty. DstName column must not be empty.	N/A
Rename	Rename a file or directory.	N/A	This column must be empty. DstName column must not be empty.	N/A
Gzip	Compress file.	N/A	This column must be empty. DstName column must be empty.	N/A
Gunzip	Decompress file.	N/A	This column must be empty. DstName column must be empty.	N/A
Sha256sum	Compute the hash digest of a file using the SHA256 algorithm.	N/A	This column must be empty. DstName column must be empty.	N/A
Md5sum	Compute the hash digest of a file using the MD5 algorithm.		This column must be empty. DstName column must be empty.	N/A
Mkdir	Create a new	N/A	This column must be empty.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	directory.		DstName column must be empty.	
RmDir	Remove an empty directory.	N/A	This column must be empty. DstName column must be empty.	N/A

FileSystem/RecycleBin

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#cfp0:/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.

FileSystem/Media

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	Part1Size, Part2Size, Part3Size and Part4Size should be assigned 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.	N/A
Part2Size	The size of partition2. Unit: Mbyte.	Unsigned integer.	N/A
Part3Size	The size of partition3. Unit: Mbyte.	Unsigned integer.	N/A
Part4Size	The size of partition4. Unit: Mbyte.	Unsigned integer.	N/A

FileSystem/Partitions

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

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	4

FileSystem

FileSystem/Files

This table contains the file information.

XML structure

```
<FileSystem>
  <Files>
    <File>
      <Name></Name>
      <Path></Path>
      <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	Fully qualified name of a directory or file	Index	String, case insensitive. Length: 1 to 4096 characters.	Examples: <ul style="list-style-type: none">flash:/logfile/logfile.logchassis3#slot1#cfa0:/main.cfg

Column name	Column description	Column type	Data type and restrictions	Remark
Path	Absolute path to the file	N/A	String, case insensitive. Length: 1 to 4096 characters.	Examples: <ul style="list-style-type: none"> flash:/logfile chassis3#slot1#cfa0:
Size	File size in bytes	N/A	Unsigned integer. Value range: 0 to 2^{64} - 1.	N/A
Time	Latest modification time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
IsDirectory	Whether the Name column carries a directory	N/A	Boolean: <ul style="list-style-type: none"> 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	File system name	Index	String. Length: 1 to 255 characters.	Examples: <ul style="list-style-type: none">chassis2#slot1#flash:chassis1#slot2#cfa0:
TrashFiles	Files in the recycle bin	Data structure	Members: FileName	N/A
FileName	File name.	N/A	String, case insensitive. Length: 1 to 4096 characters.	Examples: <ul style="list-style-type: none">logfile/logfile.logmain.cfg

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	Index	String. Length: 1 to 255 characters.	Examples: <ul style="list-style-type: none"> chassis2#slot1#flash: chassis1#slot2#cfa:
PartitionCapability	Whether the medium can be partitioned	N/A	Boolean: <ul style="list-style-type: none"> 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	Index	String.	Examples:

Column name	Column description	Column type	Data type and restrictions	Remark
			Length: 1 to 255 characters.	<ul style="list-style-type: none"> chassis2#slot1#flash: chassis1#slot2#cfa0:
Total	Total size of the partition in bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Used	Used size of the partition in bytes.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Free	Available size of the partition in bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
Bootable	Whether the partition is the startup partition	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
MountState	Whether the partition is mounted	N/A	Boolean: <ul style="list-style-type: none"> true false 	If the value of this column is false, only this column and the Name column can be read.

Contents

- FileSystem.....1
 - FileSystem/Files 1
 - FileSystem/Media 2
 - FileSystem/Partitions 2

FileSystem

FileSystem/Files

Message	Explanation
The destination file name can't be the same as the source file name.	During executing copy or move operation, the destination file name must not be the same as the source file name.
Permission denied.	During executing copy, move, delete or rename operation, user lacks permissions.
The file or directory doesn't exist.	During executing copy, move, delete or rename operation on a file or directory, the file or directory doesn't exist.
Insufficient storage or disk space.	During executing copy or move operation, insufficient storage or disk space.
Wrong file name or directory name. Please check.	During executing rename operation, the source file name and the destination file name must not end with '\.'
SrcName and DstName are not in the same directory.	During executing rename operation, the source file and the destination file must in the same parent directory.
The destination file name is already used.	During executing rename operation, the destination file name must not be used.
The directory already exists.	During executing make directory operation, the directory must not exist.
The parent directory doesn't exist.	During executing make directory operation, the parent directory doesn't exist.
A file with the same name already exists	During executing make directory operation, the directory must not be the same as an exist file.
Can't remove the directory because it is not empty.	During executing delete directory operation, the directory must be empty.
Can't execute this command. The security log file is already saved in the storage medium.	Before partition a storage device, delete all the saved security log files first.
Please use 'Rmdir' to remove the directory.	The directory can't be deleted by 'Delete' operation, but 'Rmdir'.
Can't overwrite directory %s with non-directory %s.	During executing copy or move operation, the destination file name must not be the same as an exist directory.
DstName is not required for this operation.	The 'DstName' must not be set in operation 'Delete', 'UnReservedDelete', 'Gzip', 'Gunzip', 'Sha256sum', 'Md5sum', 'Mkdir' and 'Rmdir'.
Please enter a value for the DstName column.	The 'DstName' must be set in operation 'Copy', 'Move', 'Rename', 'Sha256sum', 'Md5sum', 'Mkdir' and 'Rmdir'.
Operation failed. Curl unsupported protocol.	Failed to copy file through network, unsupported protocol.
Operation failed. Remote server login denied.	Failed to copy file through network, wrong user name or password.
Operation failed. Remote file or directory not found.	Failed to copy file through network, remote file or directory not found.
Operation failed. Remote server can't connect.	Failed to copy file through network, remote server can't connect.
Invalid VPN name.	Failed to copy file through network, invalid VPN name.

Invalid URL.	Failed to copy file through network, invalid URL.
--------------	---------------------------------------------------

FileSystem/Media

Message	Explanation
Storage device error.	Can't read storage device.
The storage space is too small to partition.	Do not need to partition.
The partition size must be greater than or equal to %dMB.	The partition size is set too small.
The partition size must be less than or equal to %uMB.	The partition size is set too big.
The remaining space is less than %uMB.	The remaining space is not enough.

FileSystem/Partitions

Message	Explanation
The storage device is being used and locked by another process.	Wait for the storage device to be released.
Operation failed. The device is in use and locked by another process.	Operation failed, wait for the storage device to be released.

Contents

- FTP.....1
 - FTP/Server1
 - XML structure1
 - Table description.....1
 - Columns.....1

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: <ul style="list-style-type: none">enable Enable FTP Serverdisable 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

- FTP.....1
 - FTP/Capabilities1
 - XML structure1
 - Table description.....1
 - Columns.....1
 - FTP/Server1
 - XML structure1
 - 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: <ul style="list-style-type: none">truefalse

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: <ul style="list-style-type: none"> 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.

Contents

FTP 1

 FTP/Server..... 1

FTP

FTP/Server

Message	Explanation
Failed to enable FTP server. 使能FTP server失败	When the FTP service port number has been used by other services, it does not support to enable FTP server.
Failed to set the idle-timeout interval for FTP connections. 配置空闲超时失败.	If the idle-timeout interval for FTP connections can't be processed by the daemon of FTP, the configuration of specified idle-timeout interval for FTP will fail.
Failed to specify ACL. 配置ACL失败.	If the ACL configuration can't be processed by the daemon of FTP, the specified ACL configuration will fail.
Failed to specify the SSL server policy. 配置SSL失败.	The specified SSL server policy name that need to be configured must already exist.

Contents

- Fundamentals1
 - Fundamentals/CurrentSessionOpt.....1
 - XML structure1
 - Table description.....1
 - Columns.....1

Fundamentals

Fundamentals/CurrentSessionOpt

This table describes the actions that can be performed to current session.

XML structure

```
<Fundamentals>
  <CurrentSessionOpt>
    <DisableEditConfigWhenRollback/>
    <EnableLightRollback/>
  </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	Remarks
DisableEditConfigWhenRollback	Reject edit-config request when system is performing rollback.	N/A	Boolean: <ul style="list-style-type: none">truefalse	N/A
EnableLightRollback	Enable rollback in a light weight method.	N/A	Boolean: <ul style="list-style-type: none">truefalse	This column is used to enable or disable the light rollback(a light way to rollback when you get an error in the edit-config operation while the error-option is set to be rollback-on-error). By default, it is false

Contents

- Fundamentals 1
 - Fundamentals/WebUI 1
 - 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>
      <AclNumber></AclNumber>
      <AclName></AclName>
    </HTTP>
    <HTTPS>
      <State></State>
      <Port></Port>
      <AclNumber></AclNumber>
      <AclName></AclName>
    </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: <ul style="list-style-type: none"> State Port AclNumber 	N/A
State	HTTP status.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> State Port AclNumber 	N/A
State	HTTPS status.	N/A	Enumeration: <ul style="list-style-type: none"> 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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Fundamentals

Fundamentals/WebUI

This table contains Web service information.

XML structure

```
<Fundamentals>
  <WebUI>
    <SessionAgingTime></SessionAgingTime>
    <HTTP>
      <State></State>
      <Port></Port>
      <AclNumber></AclNumber>
      <AclName></AclName>
    </HTTP>
    <HTTPS>
      <State></State>
      <Port></Port>
      <AclNumber></AclNumber>
      <AclName></AclName>
    </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: <ul style="list-style-type: none"> State Port AcINumber 	N/A
State	HTTP status.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> State Port AcINumber 	N/A
State	HTTPS status.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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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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: <ul style="list-style-type: none"> 1—IPv4(Default). 2—IPv6. 	N/A.
Identity	GDOI GM group ID.	Data structure	Members include: <ul style="list-style-type: none"> Type Address Number 	Use Type to specify which member is valid
Type	Identity type	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> Only when the ACL Name is empty, does the ACL Number make sense.

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XML structure	22
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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type Address Number 	Use Type to specify which member is valid
Type	Identity type	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
</GdoiGmDownloadIPv4AclRules>

```

Table description

Item	Description
Feature name	GDVPNGM
Table name	GdoiGmDownloadIPv4AclRules
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <AclNum></AclNum>
      <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: <ul style="list-style-type: none"> • ACLName • ACLNumber • ACLRuleID • ACLMode • Action • Protocol • SrcAddr • SrcWildLen • SrcPort • DesAddr • DesWildLen • DesPort 	<p>If the ACLRuleID is 65535, it means the ACL is an empty ACL.</p> <p>The ACL does not support to display object-group configuration.</p>
ACLName	ACL name	N/A	String. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • Default is 0. 	<ul style="list-style-type: none"> ○ 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.	<ul style="list-style-type: none"> ○ 65535 means the ACL rule is empty

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLMode	Protection modes	N/A	Enumeration: <ul style="list-style-type: none"> 1—per-rule(default). 2—per-host. 3—aggregation. 	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> Default is 0. 	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 65535 means the ACL rule is empty

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLMode	Protection modes	N/A	Enumeration: <ul style="list-style-type: none"> 1—per-rule(default). 2—per-host. 3—aggregation. 	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Unicast 2—Multicast 	N/A
RemainingKeyLifetime	KEK lifetime in seconds.	N/A	Unsigned integer.	Unit: second
EncryptionAlgorithm	KEK encryption algorithm.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> EncryptAlg. AuthAlg. 	N/A
EncryptAlg	Encryption algorithm.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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. <ul style="list-style-type: none">Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified DNS mapping.	N/A	This column must be empty.	<ul style="list-style-type: none">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.	<ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	A 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.	A null string indicates the label is not configured.
DNSMap	Name of the DNS mapping.	N/A	String, case-insensitive. Length: 0 to 63 characters.	A 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.	A null string indicates the label is not configured.
PreferredAlgorithm	Algorithm.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
			<ul style="list-style-type: none"> • 10—Inbound bandwidth. • 11—Outbound bandwidth. • 12—Max bandwidth. • 13—Max inbound bandwidth. • 14—Max outbound bandwidth. 	
FallbackAlgorithm	Algorithm.	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> • 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	<p>Enumeration:</p> <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	A 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: <ul style="list-style-type: none"> 0—Send response. 1—Send rejected. 2—No response. 3—Proxy. 	N/A
FailedCause	The cause of DNS request parse failure.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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.	A 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.	A null string indicates the label is not configured.
DNSMap	Name of the DNS mapping.	N/A	String, case-insensitive. Length: 0 to 63 characters.	A 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.	A null string indicates the label is not configured.
PreferredAlgorithm	Algorithm.	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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
			<ul style="list-style-type: none"> 10—Inbound bandwidth. 11—Outbound bandwidth. 12—Max bandwidth. 13—Max inbound bandwidth. 14—Max outbound bandwidth. 	
FallbackAlgorithm	Algorithm.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	A 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: <ul style="list-style-type: none"> 0—Send response. 1—Send rejected. 2—No response. 3—Proxy. 	N/A
FailedCause	The cause of DNS request parse failure.	N/A	Enumeration: <ul style="list-style-type: none"> 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.	<ul style="list-style-type: none">N/A

GLB/ClearGlobalDNSListenerStats

This table is used to clear the statistics of a global DNS listener.

XML structure

```
<GLB>
  <ClearGlobalDNSListenerStats>
    <ClearGlobalDNSListenerStat>
      <Name></Name>
      <Clear></Clear>
    </ClearGlobalDNSListenerStat>
  </ClearGlobalDNSListenerStats>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	ClearGlobalDNSListenerStats
Table type	Multi-instance table
Row name	ClearGlobalDNSListenerStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global DNS listener.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Clear	Action of clearing the statistics of the specified global DNS listener.	N/A	This column must be empty.	N/A

GLB/ClearAllGlobalDNSListenerStats

This table is used to clear the statistics of all global DNS listeners.

XML structure

```
<GLB>
  <ClearAllGlobalDNSListenerStats>
    <Clear></Clear>
  </ClearAllGlobalDNSListenerStats>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	ClearAllGlobalDNSListenerStats
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 statistics of all global DNS listeners.	N/A	This column must be empty.	N/A

GLB/ClearGlobalDNSMapStats

This table is used to clear the statistics of a global DNS map.

XML structure

```
<GLB>
  <ClearGlobalDNSMapStats>
    <ClearGlobalDNSMapStat>
      <Name></Name>
      <Clear></Clear>
    </ClearGlobalDNSMapStat>
  </ClearGlobalDNSMapStats>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	ClearGlobalDNSMapStats
Table type	Multi-instance table
Row name	ClearGlobalDNSMapStat
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Clear	Action of clearing the statistics of the specified global DNS map.	N/A	This column must be empty.	N/A

GLB/ClearAllGlobalDNSMapStats

This table is used to clear the statistics of all global DNS maps.

XML structure

```
<GLB>
  <ClearAllGlobalDNSMapStats>
    <Clear></Clear>
```



```

    </ClearAllGlobalDNSMapStats>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	ClearAllGlobalDNSMapStats
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 statistics of all global DNS maps.	N/A	This column must be empty.	N/A

GLB/DelGlobalVRFPproximities

This table is used to delete all global proximity entries that belong to a VPN instance.

XML structure

```

<GLB>
  <DelGlobalVRFPproximities>
    <DelGlobalVRFPproximity>
      <VRF></VRF>
      <AF></AF>
      <Delete></Delete>
    </DelGlobalVRFPproximity>
  </DelGlobalVRFPproximities>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DelGlobalVRFPproximities
Table type	Multi-instance table

Row name	DelGlobalVRFPproximity
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.
AF	Address family.	Index	Enumeration: <ul style="list-style-type: none"> 1—IPv4. 2—IPv6. 3—All. 	N/A
Delete	Action of deleting global proximity entries.	N/A	This column must be empty.	N/A

GLB/DelGlobalIpv4Proximities

This table is used to delete all global IPv4 proximity entries that belong to a VPN instance.

XML structure

```

<GLB>
  <DelGlobalIpv4Proximities>
    <DelGlobalIpv4Proximity>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Delete></Delete>
    </DelGlobalIpv4Proximity>
  </DelGlobalIpv4Proximities>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DelGlobalIpv4Proximities
Table type	Multi-instance table
Row name	DelGlobalIpv4Proximity
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.
Ipv4Address	IPv4 address.	Index	String. Dotted decimal notation.	N/A
Delete	Action of deleting the specified global IPv4 proximity.	N/A	This column must be empty.	N/A

GLB/DelAllGlobalIPv4Proximities

This table is used to delete all global IPv4 proximity entries.

XML structure

```
<GLB>
  <DelAllGlobalIpv4Proximities>
    <Delete></Delete>
  </DelAllGlobalIpv4Proximities>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	DelAllGlobalIpv4Proximities
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 global IPv4 proximity entries.	N/A	This column must be empty.	N/A

GLB/DefaultSyncGroupDistribute

This table is used to trigger data synchronization among synchronization group members.

XML structure

```
<GLB>
  <DefaultSyncGroupDistribute>
    <SyncType></SyncType>
    <DataType></DataType>
    <Sync></Sync>
  </DefaultSyncGroupDistribute>
</GLB>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SyncType	Synchronization type	Index	Enumeration: <ul style="list-style-type: none">0—sync1—sync all	N/A
DataType	The type of synchronized data	Index	Enumeration: <ul style="list-style-type: none">0—running data1—proximity data2—config data	The Datatype only can be proximity data(1) or config data(2) when the SyncType is sync all(1).
Sync	Synchronize data among default synchronization group members.	N/A	This column must be empty.	N/A

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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: <ul style="list-style-type: none"> 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
				<p>The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).</p> <p>The domain name supports wildcards including question marks (?) and asterisks (*).</p> <p>The following rules apply when you use wildcards:</p> <p>Use a question mark (?) to replace one character, except the dot (.).</p> <p>Multiple question marks can appear in the domain name.</p> <p>Use an asterisk (*) to replace multiple characters, except the dot (.).</p> <p>Multiple asterisks can appear in the domain name.</p> <p>Question marks and asterisks can appear in the domain name at the same time.</p>
Domain	Domain for the DNS map.	Index	String, case-insensitive. Length: 1 to 253 characters.	

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: <ul style="list-style-type: none">0—None1—Round-robin2—Random.3—Least-connection.4—Topology5—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: <ul style="list-style-type: none">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.		<ul style="list-style-type: 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. 	
PredictorPreferred	Predictor preferred algorithm for LB to select a virtual server to be the DNS recorder for client response.	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none">0—don't record.1—record.	N/A
AAAA	The AAAA type of the DNS record.	N/A	Unsigned integer. <ul style="list-style-type: none">0—don't record.1—record.	N/A
CNAME	The CNAME type of the DNS record.	N/A	Unsigned integer. <ul style="list-style-type: none">0—don't record.1—record.	N/A
MX	The MX type of the DNS record.	N/A	Unsigned integer. <ul style="list-style-type: none">0—don't record.1—record.	N/A
NS	The NS type of the DNS record.	N/A	Unsigned integer. <ul style="list-style-type: none">0—don't record.1—record.	N/A
SOA	The SOA type of the DNS record.	N/A	Unsigned integer. <ul style="list-style-type: none">0—don't record.1—record.	N/A
SRV	The SRV type of the DNS record.	N/A	Unsigned integer. <ul style="list-style-type: none">0—don't record.1—record.	N/A
TXT	The TXT type of the DNS record.	N/A	Unsigned integer. <ul style="list-style-type: none">0—don't record.1—record.	N/A
PTR	The PTR type of the DNS record.	N/A	Unsigned integer. <ul style="list-style-type: none">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 characters.	Remarks
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

GLB/LocalDefaultSyncGroupMems

This table contains information about the local default synchronization group member.

XML structure

```

<GLB>
  <LocalDefaultSyncGroupMems>
    <LocalDefaultSyncGroupMem>
      <Name></Name>
      <Port></Port>
      <ServiceEnable></ServiceEnable>
      <Interval></Interval>
      <RetryTimes></RetryTimes>
      <CipherKey></CipherKey>
      <SimpleKey></SimpleKey>
    </LocalDefaultSyncGroupMem>
  </LocalDefaultSyncGroupMems>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	LocalDefaultSyncGroupMems
Table type	Multi-instance table
Row name	LocalDefaultSyncGroupMem
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 local default synchronization group member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Port	Specify the communication port number of the local default synchronization group member.	N/A	Unsigned integer. Value range: 1024 to 65535. By default, the value is 3936.	N/A
ServiceEnable	Enable the communicating function of the local default synchronization group member.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
Interval	Specify the probe interval for the local default synchronization group member.	N/A	Unsigned integer. Value range: 1 to 259200. Unit: second. By default, the value is 5 seconds.	N/A
RetryTimes	Specify the probe retry times for the local default synchronization group member.	N/A	Unsigned integer. Value range: 1 to 10. By default, the value is 5.	N/A
CipherKey	Specify an authentication key in encrypted form.	N/A	String, case-sensitive. Length: 1 to 53 characters.	Configure CipherKey or SimpleKey , but not both.
SimpleKey	Specify an authentication key in plaintext form.	N/A	String, case-sensitive. Length: 1 to 16 characters.	Configure CipherKey or SimpleKey , but not both.

GLB/RemoteDefaultSyncGroupMems

This table contains information about a remote default synchronization group member.

XML structure

```
<GLB>
  <RemoteDefaultSyncGroupMems>
    <RemoteDefaultSyncGroupMem>
      <Name></Name>
      <Port></Port>
    </RemoteDefaultSyncGroupMem>
  </RemoteDefaultSyncGroupMems>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	RemoteDefaultSyncGroupMems
Table type	Multi-instance table
Row name	RemoteDefaultSyncGroupMem
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 remote default synchronization group member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Port	Specify the communication port number of the remote default synchronization group member.	N/A	Unsigned integer. Value range: 1024 to 65535. By default, the value is 3936.	N/A

GLB/SyncGroupMemberIPAddresses

This table contains information about the IP address of the synchronization group member.

XML structure

```
<GLB>
  <SyncGroupMemberIPAddresses>
```



```

<SyncGroupMemberIPAddress>
  <SyncGroupMemberType></SyncGroupMemberType>
  <SyncGroupMemberName></SyncGroupMemberName>
  <Ipv4Address></Ipv4Address>
</SyncGroupMemberIPAddress>
</SyncGroupMemberIPAddresses>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	SyncGroupMemberIPAddresses
Table type	Multi-instance table
Row name	SyncGroupMemberIPAddress
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SyncGroupMemberType	Type of the synchronization group member.	Index	Enumeration: <ul style="list-style-type: none"> 0—Local 1—Remote 	N/A
SyncGroupMemberName	Name of the synchronization group member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	Specify the IPv4 address of the synchronization group member.	Index	Hexadecimal string, colon-separated.	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.

GLB/DataCenters

This table contains information about a data center.

XML structure

```

<GLB>
  <DataCenters>

```



```

<DataCenter>
  <Name></Name>
  <Description></Description>
  <ServiceEnable></ServiceEnable>
</DataCenter>
</DataCenters>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DataCenters
Table type	Multi-instance table
Row name	DataCenter
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 data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Specify the description of the data center.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
ServiceEnable	Enable the data center function.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A

GLB/DataCenterLinks

This table contains information about the links of a data center.

XML structure

```

<GLB>
  <DataCenterLinks>
    <DataCenterLink>
      <DataCenter></DataCenter>
    </DataCenterLink>
  </DataCenterLinks>
</GLB>

```



```

    <Link></Link>
  </DataCenterLink>
</DataCenterLinks>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DataCenterLinks
Table type	Multi-instance table
Row name	DataCenterLink
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Link	Name of the link.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/Servers

This table contains information about a server.

XML structure

```

<GLB>
  <Servers>
    <Server>
      <DataCenter></DataCenter>
      <Name></Name>
      <ServiceEnable></ServiceEnable>
      <Interval></Interval>
      <User></User>
      <CipherPassword></CipherPassword>
      <SimplePassword></SimplePassword>
    </Server>
  </Servers>
</GLB>

```



```
</Servers>
</GLB>
```

Table description

Item	Description
Feature name	GLB
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
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Name	Server name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the server function.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
Interval	Specify the communication interval of the server.	N/A	Unsigned integer. Value range: 5 to 2419200. By default, the value is 10.	N/A
User	Specify the communication user of the server.	N/A	String, case-sensitive. Length: 1 to 55 characters.	N/A
CipherPassword	Specify the encrypted password of the server.	N/A	String, case-sensitive. Length: 1 to 113 characters.	Configure CipherPassword or SimplePassword, but not both.
SimplePassword	Specify the plaintext password of the server.	N/A	String, case-sensitive. Length: 1 to 63 characters.	Configure CipherPassword or SimplePassword, but not both.

GLB/LocalServers

This table contains information about the local server.

XML structure

```
<GLB>
  <LocalServers>
    <LocalServer>
      <DataCenter></DataCenter>
      <Name></Name>
      <ServiceEnable></ServiceEnable>
    </LocalServer>
  </LocalServers>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	LocalServers
Table type	Multi-instance table
Row name	LocalServer
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Name	Local server name.	Index	String, case-insensitive. Must be localhost.	N/A
ServiceEnable	Enable the server function.	N/A	Enumeration: <ul style="list-style-type: none">0—Disable (default).1—Enable.	N/A

GLB/ServerIPAddresses

This table contains information about the IP address of a server.

XML structure

```
<GLB>
  <ServerIPAddresses>
    <ServerIPAddress>
      <DataCenter></DataCenter>
      <Server></Server>
      <Ipv4Address></Ipv4Address>
    </ServerIPAddress>
  </ServerIPAddresses>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	ServerIPAddresses
Table type	Multi-instance table
Row name	ServerIPAddress
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Server name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	Specify the IPv4 address of the server.	Index	Hexadecimal string, colon-separated.	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.

GLB/LocalVirtualServers

This table contains information about the virtual server of a local server.

XML structure

```
<GLB>
  <LocalVirtualServers>
    <LocalVirtualServer>
      <DataCenter></DataCenter>
      <LocalServer></LocalServer>
      <VirtualServerType></VirtualServerType>
      <VirtualServer></VirtualServer>
    </LocalVirtualServer>
  </LocalVirtualServers>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	LocalVirtualServers
Table type	Multi-instance table
Row name	LocalVirtualServer
Restrictions	Only virtual server of local server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
LocalServer	Local server name.	Index	String, case-insensitive.	Must be localhost.
VirtualServerType	Virtual server type.	Index	Enumeration: <ul style="list-style-type: none">0—virtual server1—virtual IP.	N/A
VirtualServer	Virtual server name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/GlobalDNSListeners

This table contains information about a global DNS listener.

XML structure

```
<GLB>
  <GlobalDNSListeners>
    <GlobalDNSListener>
      <Name></Name>
      <Ipv4Address></Ipv4Address>
      <Ipv4PortNumber></Ipv4PortNumber>
      <ServiceEnable></ServiceEnable>
      <Fallback></Fallback>
    </GlobalDNSListener>
  </GlobalDNSListeners>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSListeners
Table type	Multi-instance table
Row name	GlobalDNSListener
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 global DNS listener.	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, and broadcast addresses are not supported, and addresses such as 0.x.x.x are not supported either.
Ipv4PortNumber	IPv4 port number.	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.	
ServiceEnable	Enable the global DNS listener.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
Fallback	Fallback action.	N/A	Enumeration: <ul style="list-style-type: none"> 0—No response. 1—Reject (default). 	N/A

GLB/GlobalDNSMaps

This table contains information about a global DNS map.

XML structure

```

<GLB>
  <GlobalDNSMaps>
    <GlobalDNSMap>
      <Name></Name>
      <TTL></TTL>
      <PredictorAlternate></PredictorAlternate>
      <PredictorFallback></PredictorFallback>
      <PredictorPreferred></PredictorPreferred>
      <ServiceEnable></ServiceEnable>
    </GlobalDNSMap>
  </GlobalDNSMaps>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSMaps
Table type	Multi-instance table
Row name	GlobalDNSMap
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 global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
TTL	TTL time of the DNS recorder.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600 seconds.	N/A
PredictorAlternate	Alternative predictor algorithm for GLB to select a virtual server pool to service a DNS request.	N/A	Enumeration: <ul style="list-style-type: none"> 0—None. 1—Round-robin. 2—Random. 3—Topology. 4—Proximity. 	N/A
PredictorFallback	Backup predictor algorithm for GLB to select a virtual server pool to service a DNS request.	N/A	Enumeration: <ul style="list-style-type: none"> 0—None. 1—Round-robin. 2—Random. 3—Topology. 4—Proximity. 	N/A
PredictorPreferred	Preferred predictor algorithm for GLB to select a virtual server pool to service a DNS request.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Round-robin (default). 2—Random. 3—Topology. 4—Proximity. 	N/A
ServiceEnable	Enable the global DNS map.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A

GLB/GlobalDNSMapDomains

This table contains information about the domains of a global DNS map.

XML structure

```

<GLB>
  <GlobalDNSMapDomains>
    <GlobalDNSMapDomain>
      <GlobalDNSMap></GlobalDNSMap>
    
```



```

    <Domain></Domain>
  </GlobalDNSMapDomain>
</GlobalDNSMapDomains>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSMapDomains
Table type	Multi-instance table
Row name	GlobalDNSMapDomain
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalDNS Map	Name of the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
				<p>The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).</p> <p>The domain name supports wildcards including question marks (?) and asterisks (*).</p> <p>The following rules apply when you use wildcards:</p> <ul style="list-style-type: none"> • 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.
Domain	Domain for the global DNS map.	Index	String, case-insensitive. Length: 1 to 253 characters.	

GLB/GlobalDNSMapVirtualServerPools

This table contains information about the virtual server pool of a global DNS map.

XML structure

```
<GLB>
  <GlobalDNSMapVirtualServerPools>
    <GlobalDNSMapVirtualServerPool>
      <GlobalDNSMap></GlobalDNSMap>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <Weight></Weight>
    </GlobalDNSMapVirtualServerPool>
  </GlobalDNSMapVirtualServerPools>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSMapVirtualServerPools
Table type	Multi-instance table
Row name	GlobalDNSMapVirtualServerPool
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalDNSMap	Name of the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
GlobalVirtualServerPool	Virtual server pool for the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the global virtual pool.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger number means a higher weight.

GLB/GlobalVirtualServerPools

This table contains information about a global virtual server pool.

XML structure

```
<GLB>
```



```

<GlobalVirtualServerPools>
  <GlobalVirtualServerPool>
    <Name></Name>
    <ProbeSuccessCriteria></ProbeSuccessCriteria>
    <PredictorAlternate></PredictorAlternate>
    <PredictorFallback></PredictorFallback>
    <PredictorPreferred></PredictorPreferred>
    <BusyProtectEnable></BusyProtectEnable>
  </GlobalVirtualServerPool>
</GlobalVirtualServerPools>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalVirtualServerPools
Table type	Multi-instance table
Row name	GlobalVirtualServerPool
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 global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ProbeSuccessCriteria	Probe success criteria for virtual server pool.	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
PredictorAlternate	Alternative predictor algorithm for GLB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: <ul style="list-style-type: none"> 0—None. 1—Round-robin. 2—Random. 3—Least-connection (not supported) 4—Topology. 5—Proximity. 	N/A
PredictorFallback	Backup predictor	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
back	algorithm for GLB to select a virtual server to be the DNS recorder for client response.		<ul style="list-style-type: none"> 0—None. 1—Round-robin. 2—Random. 3—Least-connection (not supported) 4—Topology. 5—Proximity. 	
PredictorPreferred	Preferred predictor algorithm for GLB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Round-robin (default). 2—Random. 3—Least-connection (not supported) 4—Topology. 5—Proximity. 	N/A
BusyProtectEnable	Enable link protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A

GLB/GVSPVirtualServers

This table contains information about a virtual server of the global virtual server pool.

XML structure

```

<GLB>
  <GVSPVirtualServers>
    <GVSPVirtualServer>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <DataCenter></DataCenter>
      <Server></Server>
      <VirtualServer></VirtualServer>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <Link></Link>
      <Weight></Weight>
    </GVSPVirtualServer>
  </GVSPVirtualServers>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GVSPVirtualServers
Table type	Multi-instance table

Row name	GVSPVirtualServer
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DataCenter	Name of the virtual server's data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Name of the virtual server's server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualServer	Virtual server of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ProbeSuccessCriteria	Probe success criteria for virtual server pool.	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
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.	A larger number means a higher weight.

GLB/GVSPVirtualIPs

This table contains information about the virtual IP address of a global virtual server pool.

XML structure

```

<GLB>
  <GVSPVirtualIPs>
    <GVSPVirtualIP>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <DataCenter></DataCenter>
      <Server></Server>
    </GVSPVirtualIP>
  </GVSPVirtualIPs>
</GLB>

```



```

    <VirtualIP></VirtualIP>
    <ProbeSuccessCriteria></ProbeSuccessCriteria>
    <Link></Link>
    <Weight></Weight>
  </GVSPVirtualIP>
</GVSPVirtualIPs>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GVSPVirtualIPs
Table type	Multi-instance table
Row name	GVSPVirtualIP
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DataCenter	Name of the virtual IP's data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Name of the virtual IP's server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualIP	Virtual IP address of the global virtual server pool.	Index	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.
ProbeSuccessCriteria	Probe success criteria for virtual IP.	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
Link	Link of the virtual IP.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Weight	Weight of the virtual IP.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger number means a higher weight.

GLB/GVSPProbes

This table contains information the probe method of a global virtual server pool.

XML structure

```

<GLB>
  <GVSPProbes>
    <GVSPProbe>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <Probe></Probe>
    </GVSPProbe>
  </GVSPProbes>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GVSPProbes
Table type	Multi-instance table
Row name	GVSPProbe
Restrictions	Only global virtual 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
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

GLB/GVSPVirtualServerProbes

This table contains information the probe method of a virtual server.

XML structure

```
<GLB>
  <GVSPVirtualServerProbes>
    <GVSPVirtualServerProbe>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <DataCenter></DataCenter>
      <Server></Server>
      <VirtualServer></VirtualServer>
      <Probe></Probe>
    </GVSPVirtualServerProbe>
  </GVSPVirtualServerProbes>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GVSPVirtualServerProbes
Table type	Multi-instance table
Row name	GVSPVirtualServerProbe
Restrictions	Only virtual 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
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DataCenter	Name of the virtual server's data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Name of the virtual server's server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualServer	Virtual server of the global virtual server	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	pool.			
Probe	Probe method for the virtual server member.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

GLB/GVSPVIPProbes

This table contains information the probe method of a virtual IP.

XML structure

```

<GLB>
  <GVSPVIPProbes>
    <GVSPVIPProbe>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <DataCenter></DataCenter>
      <Server></Server>
      <VirtualIP></VirtualIP>
      <Probe></Probe>
    </GVSPVIPProbe>
  </GVSPVIPProbes>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GVSPVIPProbes
Table type	Multi-instance table
Row name	GVSPVIPProbe
Restrictions	Only global virtual ip 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
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the virtual IP's data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Name of the virtual IP's server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualIP	Virtual IP address of the virtual IP.	Index	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.
Probe	Probe method for the virtual IP.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

GLB/GTopoRegionVSPs

This table contains information about the mapping between a global region and a global virtual server pool.

XML structure

```

<GLB>
  <GTopoRegionVSPs>
    <GTopoRegionVSP>
      <GlobalRegion></GlobalRegion>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <Priority></Priority>
    </GTopoRegionVSP>
  </GTopoRegionVSPs>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GTopoRegionVSPs
Table type	Multi-instance table
Row name	GTopoRegionVSP
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalRegion	Name of the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Priority	Priority of the global region.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger number means a higher priority.

GLB/GTopoRegionIPv4s

This table contains information about the mapping between a global region and an IP address.

XML structure

```
<GLB>
  <GTopoRegionIPv4s>
    <GTopoRegionIPv4>
      <GlobalRegion></GlobalRegion>
      <IPv4Address></IPv4Address>
      <IPv4MaskLength></IPv4MaskLength>
      <Priority></Priority>
    </GTopoRegionIPv4>
  </GTopoRegionIPv4s>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GTopoRegionIPv4s
Table type	Multi-instance table
Row name	GTopoRegionIPv4
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalRegion	Name of the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPv4Addresses	IPv4 address.	Index	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.	Index	Unsigned integer. Value range: 0 to 32. By default, the value is 32.	The column cannot be configured if no IPv4 address is configured.
Priority	Priority of the global region.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger number means a higher priority.

GLB/GlobalRegions

This table contains information about a global region.

XML structure

```

<GLB>
  <GlobalRegions>
    <GlobalRegion>
      <Name></Name>
    </GlobalRegion>
  </GlobalRegions>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalRegions
Table type	Multi-instance table
Row name	GlobalRegion
Restrictions	None.
Support for row creation and	Yes

deletion	
----------	--

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/GlobalRegionISPs

This table contains information about the global ISP for a global region.

XML structure

```

<GLB>
  <GlobalRegionISPs>
    <GlobalRegionISP>
      <GlobalRegion></GlobalRegion>
      <GlobalISP></GlobalISP>
    </GlobalRegionISP>
  </GlobalRegionISPs>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalRegionISPs
Table type	Multi-instance table
Row name	GlobalRegionISP
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalRegion	Name of the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalISP	ISP for the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/GlobalISPs

This table contains information about a global ISP.

XML structure

```
<GLB>
  <GlobalISPs>
    <GlobalISP>
      <Name></Name>
    </GlobalISP>
  </GlobalISPs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalISPs
Table type	Multi-instance table
Row name	GlobalISP
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 global ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/GlobalIpv4ISPAddressGroups

This table contains information about a global IPv4 ISP address group.

XML structure

```
<GLB>
  <GlobalIpv4ISPAddressGroups>
    <GlobalIpv4ISPAddressGroup>
      <GlobalISP></GlobalISP>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
    </GlobalIpv4ISPAddressGroup>
  </GlobalIpv4ISPAddressGroups>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalIpv4ISPAddressGroups
Table type	Multi-instance table
Row name	GlobalIpv4ISPAddressGroup
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalISP	Name of the global ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
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

GLB/GlobalISPFile

This table contains information about a global ISP file.

XML structure

```
<GLB>
  <GlobalISPFile>
    <FileName></FileName>
  </GlobalISPFile>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalISPFile
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	Name of the global ISP file.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

GLB/GlobalVRFPProximityParameters

This table contains information about global proximity parameters.

XML structure

```
<GLB>
  <GlobalVRFPProximityParameters>
    <GlobalVRFPProximityParameter>
      <VRF></VRF>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Timeout></Timeout>
      <RTTWeight></RTTWeight>
      <TTLWeight></TTLWeight>
      <InBandwidthWeight></InBandwidthWeight>
      <OutBandwidthWeight></OutBandwidthWeight>
      <CostWeight></CostWeight>
```



```

    <MaxNumber></MaxNumber>
    <DefaultProbe></DefaultProbe>
  </GlobalVRFProximityParameter>
</GlobalVRFProximityParameters>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalVRFProximityParameters
Table type	Multi-instance table
Row name	GlobalVRFProximityParameter
Restrictions	None.
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 the public network.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 24.	Zero means a natural mask.
Timeout	The lifetime of global proximity entries.	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.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, the value is 100.	
CostWeight	The weight of link cost.	N/A	Unsigned integer. Value range: 0 to 255. By default, the value is 100.	N/A
MaxNumber	Upper limit for global proximity entries.	N/A	Unsigned integer. Value range: 0 to 10000000. By default, the value is 0, which indicates the number of global proximity entries is unlimited.	N/A
DefaultProbe	Default probe method for the global proximity.	N/A	String, case-insensitive. Length: 1 to 32 characters. By default, no default probe is specified.	N/A

GLB/GlobalDNSZones

This table contains information about a global DNS zone.

XML structure

```

<GLB>
  <GlobalDNSZones>
    <GlobalDNSZone>
      <DomainName></DomainName>
      <TTL></TTL>
    </GlobalDNSZone>
  </GlobalDNSZones>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZones
Table type	Multi-instance table
Row name	GlobalDNSZone
Restrictions	None.
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 global 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 global DNS zone.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600 seconds.	N/A

GLB/GlobalDNSZoneSOAs

This table contains information about an SOA resource record for a global DNS zone.

XML structure

```
<GLB>
  <GlobalDNSZoneSOAs>
    <GlobalDNSZoneSOA>
      <Zone></Zone>
      <PrimaryNS></PrimaryNS>
      <ResponsibleMail></ResponsibleMail>
      <Serial></Serial>
      <Refresh></Refresh>
      <Retry></Retry>
      <Expire></Expire>
      <MinTTL></MinTTL>
    </GlobalDNSZoneSOA>
  </GlobalDNSZoneSOAs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneSOAs
Table type	Multi-instance table
Row name	GlobalDNSZoneSOA
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the global 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 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Responsible Mail	Responsible mail address.	N/A	String, case-insensitive. Length: 1 to 253 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 3600 seconds.	N/A
Retry	Retry interval	N/A	Unsigned integer. Value range: 500 to $2^{32}-1$. Unit: second. By default, the value is 600 seconds.	N/A
Expire	Expiration time	N/A	Unsigned integer. Value range: 500 to $2^{32}-1$. Unit: second. By default, the value is 86400 seconds.	N/A
MinTTL	Minimum TTL	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600 seconds.	N/A

GLB/GlobalDNSZoneMXRRs

This table contains information about MX resource records for a global DNS zone.

XML structure

```
<GLB>
  <GlobalDNSZoneMXRRs>
    <GlobalDNSZoneMXRR>
      <Zone></Zone>
      <Host></Host>
      <MailServer></MailServer>
      <Preference></Preference>
    </GlobalDNSZoneMXRR>
  </GlobalDNSZoneMXRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneMXRRs
Table type	Multi-instance table
Row name	GlobalDNSZoneMXRR
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the global 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

GLB/GlobalDNSZoneCNAMERRs

This table contains information about CNAME resource records for a global DNS zone.

XML structure

```
<GLB>
  <GlobalDNSZoneCNAMERRs>
    <GlobalDNSZoneCNAMERR>
      <Zone></Zone>
      <Alias></Alias>
      <Canonical></Canonical>
    </GlobalDNSZoneCNAMERR>
  </GlobalDNSZoneCNAMERRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneCNAMERRs
Table type	Multi-instance table
Row name	GlobalDNSZoneCNAMERR
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the global 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 (.).

GLB/GlobalDNSZoneNSRRs

This table contains information about NS resource records for a global DNS zone.

XML structure

```
<GLB>
  <GlobalDNSZoneNSRRs>
    <GlobalDNSZoneNSRR>
      <Zone></Zone>
      <SubName></SubName>
      <NameServerName></NameServerName>
    </GlobalDNSZoneNSRR>
  </GlobalDNSZoneNSRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneNSRRs
Table type	Multi-instance table
Row name	GlobalDNSZoneNSRR
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the global 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 name server name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

GLB/GlobalDNSRevZones

This table contains information about a global DNS reverse zone.

XML structure

```
<GLB>
  <GlobalDNSRevZones>
    <GlobalDNSRevZone>
      <IPv4Address></IPv4Address>
      <IPv4PrefixLength></IPv4PrefixLength>
      <TTL></TTL>
    </GlobalDNSRevZone>
  </GlobalDNSRevZones>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSRevZones
Table type	Multi-instance table
Row name	GlobalDNSRevZone
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Addresses	IPv4 address of the global reverse zone.	Index	String. Dotted decimal notation.	Example: 1.1.1.1.
IPv4PrefixLength	IPv4 mask length of the global reverse zone.	Index	Unsigned integer. Value range: 0 to 32.	N/A
TTL	TTL time of the global reverse zone.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second. By default, the value is 3600 seconds.	N/A

GLB/GlobalDNSRevZoneRRs

This table contains information about a resource record for a global DNS reverse zone.

XML structure

```
<GLB>
  <GlobalDNSRevZoneRRs>
    <GlobalDNSRevZoneRR>
      <ReverseZoneIP></ReverseZoneIP>
      <ReverseZoneMask></ReverseZoneMask>
      <IPv4Address></IPv4Address>
      <DomainName></DomainName>
    </GlobalDNSRevZoneRR>
  </GlobalDNSRevZoneRRs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSRevZoneRRs
Table type	Multi-instance table
Row name	GlobalDNSRevZoneRR
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReverseZoneIP	IPv4 address of the global reverse zone.	Index	String. Dotted decimal notation.	Example: 1.1.1.1.
ReverseZoneMask	IPv4 mask length of the global 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.	The string can contain letters, numbers, hyphens (-), underscores

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 253 characters.	(_), and dots (.).

GLB/GlobalIpv4ISPLists

This table contains information about a global IPv4 ISP address group.

XML structure

```

<GLB>
  <GlobalIpv4ISPLists>
    <GlobalIpv4ISPList>
      <GlobalISP></GlobalISP>
      <IsIncrement></IsIncrement>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
    </GlobalIpv4ISPList>
  </GlobalIpv4ISPLists>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	Globalpv4ISPLists
Table type	Multi-instance table
Row name	Globalpv4ISPList
Restrictions	None.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalISP	Name of the global ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IsIncrement	Whether to increment the data.	Index	Enumeration: <ul style="list-style-type: none"> 0—False. 1—True. 	N/A
Ipv4Address	IPv4 address.	Index	String.	The value must be equal to the summation of the address and the

Column name	Column description	Column type	Data type and restrictions	Remarks
			Dotted decimal notation. By default, no IPv4 address is specified.	mask. Example: 1.1.1.0/24.
Ipv4PrefixLength	IPv4 mask length.	Index	Unsigned integer. Value range: 1 to 32.	N/A

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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 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.		<ul style="list-style-type: none"> • 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: <ul style="list-style-type: 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
BusyProtectEnable	Enable the busy	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	protection.		<ul style="list-style-type: none"> 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 server 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

State	State of the virtual server.	N/A	Enumeration: <ul style="list-style-type: none"> 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. 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 $2^{32}-1$. 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>

```


</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	N/A

			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 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	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

			characters.	
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.	The string can contain letters, numbers, hyphens (-), underscores

			Length: 1 to 253 characters.	(_), 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.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

			Length: 1 to 253 characters.	
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 record.	N/A	Unsigned integer. <ul style="list-style-type: none">0—don't record.1—record.	N/A
AAAA	The AAAA type of the DNS record.	N/A	Unsigned integer. <ul style="list-style-type: none">0—don't record.1—record.	N/A
CNAME	The CNAME type of the DNS record.	N/A	Unsigned integer. <ul style="list-style-type: none">0—don't record.1—record.	N/A
MX	The MX type of the DNS record.	N/A	Unsigned integer. <ul style="list-style-type: none">0—don't record.1—record.	N/A
NS	The NS type of the DNS	N/A	Unsigned integer. <ul style="list-style-type: none">0—don't record.	N/A

	record.		<ul style="list-style-type: none"> • 1—record. 	
SOA	The SOA type of the DNS record.	N/A	Unsigned integer. <ul style="list-style-type: none"> • 0—don't record. • 1—record. 	N/A
SRV	The SRV type of the DNS record.	N/A	Unsigned integer. <ul style="list-style-type: none"> • 0—don't record. • 1—record. 	N/A
TXT	The TXT type of the DNS record.	N/A	Unsigned integer. <ul style="list-style-type: none"> • 0—don't record. • 1—record. 	N/A
PTR	The PTR type of the DNS record.	N/A	Unsigned integer. <ul style="list-style-type: none"> • 0—don't record. • 1—record. 	N/A

GLB/AIIDNSRecords

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>
      <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: <ul style="list-style-type: none"> • 0—A . • 1—AAAA . • 2—MX . • 3—NS . • 4—CNAME . • 5—SOA . • 6—PTR . • 7—TXT. • 8—SRV. 	N/A
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	N/A	String.	N/A

	name of the DNS record.		Length: 0 to 31 characters.	
Domain	The domain of the DNS record.	N/A	String, case-insensitive. Length: 1 to 253 characters.	N/A
FailedCourse	The failure cause of the DNS record.	N/A	Enumeration. <ul style="list-style-type: none"> • 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 record.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second.	N/A

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 (.).
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	N/A	Unsigned integer.	N/A

	resource record.		Value range: 0 to $2^{32}-1$. Unit: second.	
--	------------------	--	-------------------------------------------------	--

GLB/LocalDefaultSyncGroupMems

This table contains information about the local default synchronization group member.

XML structure

```
<GLB>
  <LocalDefaultSyncGroupMems>
    <LocalDefaultSyncGroupMem>
      <Name></Name>
      <Port></Port>
      <ServiceEnable></ServiceEnable>
      <Interval></Interval>
      <RetryTimes></RetryTimes>
      <CipherKey></CipherKey>
      <Role></Role>
      <Online></Online>
    </LocalDefaultSyncGroupMem>
  </LocalDefaultSyncGroupMems>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	LocalDefaultSyncGroupMems
Table type	Multi-instance table
Row name	LocalDefaultSyncGroupMem
Restrictions	Only local default synchronization group member can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the local default synchronization group member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Port	Specify the communicatio	N/A	Unsigned integer. Value range: 1024 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	port number of the local default synchronization group member.		65535.	
ServiceEnable	Enable the communicating function of the local default synchronization group member.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable 1—Enable 	N/A
Interval	Specify the probe interval for the local default synchronization group member.	N/A	Unsigned integer. Value range: 1 to 259200. Unit: second.	N/A
RetryTimes	Specify the probe retry times for the local default synchronization group member.	N/A	Unsigned integer. Value range: 1 to 10.	N/A
CipherKey	Specify an authentication key in encrypted form.	N/A	String, case-sensitive. Length: 1 to 53 characters.	N/A
Role	Role of the default synchronization group member.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Master 2—Standby 	N/A
Online	Online state of the default synchronization group member.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Offline 1—Online 	N/A

GLB/RemoteDefaultSyncGroupMems

This table contains information about a remote default synchronization group member.

XML structure

```
<GLB>
  <RemoteDefaultSyncGroupMems>
```



```

<RemoteDefaultSyncGroupMem>
  <Name></Name>
  <Port></Port>
  <Role></Role>
  <ConnectState></ConnectState>
  <Online></Online>
</RemoteDefaultSyncGroupMem>
</RemoteDefaultSyncGroupMems>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	RemoteDefaultSyncGroupMems
Table type	Multi-instance table
Row name	RemoteDefaultSyncGroupMem
Restrictions	Only remote default synchronization group member can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the remote default synchronization group member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Port	Specify the communication port number of the remote default synchronization group member.	N/A	Unsigned integer. Value range: 1024 to 65535.	N/A
Role	Role of the default synchronization group member.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Master 2—Standby 	N/A
ConnectState	Connection state of the default synchronization group member.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disabled 1—Connecting 2—Listening 3—Established 	N/A
Online	Online state of the default	N/A	Enumeration: <ul style="list-style-type: none"> 0—Offline 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	synchronization group member.		<ul style="list-style-type: none"> 1—Online. 	

GLB/SyncGroupMemberIPAddresses

This table contains information about the IP address of the synchronization group member.

XML structure

```

<GLB>
  <SyncGroupMemberIPAddresses>
    <SyncGroupMemberIPAddress>
      <SyncGroupMemberType></SyncGroupMemberType>
      <SyncGroupMemberName></SyncGroupMemberName>
      <Ipv4Address></Ipv4Address>
    </SyncGroupMemberIPAddress>
  </SyncGroupMemberIPAddresses>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	SyncGroupMemberIPAddresses
Table type	Multi-instance table
Row name	SyncGroupMemberIPAddress
Restrictions	Only synchronization group member IP address can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SyncGroupMemberType	Type of the synchronization group member.	Index	Enumeration: <ul style="list-style-type: none"> 0—Local 1—Remote 	N/A
SyncGroupMemberName	Name of the synchronization group member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Ipv4Address	Specify the IPv4 address of the synchronization group member.	Index	Hexadecimal string, colon-separated.	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.

GLB/DataCenters

This table contains information about a data center.

XML structure

```

<GLB>
  <DataCenters>
    <DataCenter>
      <Name></Name>
      <Description></Description>
      <ServiceEnable></ServiceEnable>
      <Online></Online>
      <Servers></Servers>
      <Links></Links>
    </DataCenter>
  </DataCenters>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DataCenters
Table type	Multi-instance table
Row name	DataCenter
Restrictions	Only data center can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Specify the description of the data center.	N/A	String, case-insensitive. Length: 1 to 127 characters.	N/A
ServiceEnable	Enable the data center function.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
Online	Online state of the data center.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Offline. 1—Online. 	N/A
Servers	The server num of the data center.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
Links	The link num of the data center.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

GLB/DataCenterLinks

This table contains information about the links of a data center.

XML structure

```

<GLB>
  <DataCenterLinks>
    <DataCenterLink>
      <DataCenter></DataCenter>
      <Link></Link>
      <InputRate></InputRate>
      <OutputRate></OutputRate>
    </DataCenterLink>
  </DataCenterLinks>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	DataCenterLinks
Table type	Multi-instance table
Row name	DataCenterLink
Restrictions	None.
Support for row creation and	Yes

deletion	
----------	--

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Link	Name of the link.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
InputRate	Input rate of the link.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$. Unit: Bytes/s.	N/A
OutputRate	Output rate of the link.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$. Unit: Bytes/s.	N/A

GLB/Servers

This table contains information about a server.

XML structure

```
<GLB>
  <Servers>
    <Server>
      <DataCenter></DataCenter>
      <Name></Name>
      <ServiceEnable></ServiceEnable>
      <Interval></Interval>
      <User></User>
      <CipherPassword></CipherPassword>
      <SimplePassword></SimplePassword>
      <Online></Online>
      <VirtualServers></VirtualServers>
    </Server>
  </Servers>
</GLB>
```


Table description

Item	Description
Feature name	GLB
Table name	Servers
Table type	Multi-instance table
Row name	Server
Restrictions	Only server of server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Name	Server name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ServiceEnable	Enable the server function.	N/A	Enumeration: <ul style="list-style-type: none">0—Disable.1—Enable.	N/A
Interval	Specify the communication interval of the server.	N/A	Unsigned integer. Value range: 5 to 2419200.	N/A
User	Specify the communication user of the server.	N/A	String, case-sensitive. Length: 1 to 55 characters.	N/A
CipherPassword	Specify the encrypted password of the server.	N/A	String, case-sensitive. Length: 1 to 113 characters.	N/A
SimplePassword	Specify the plaintext password of the server.	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
Online	Online state of the server.	N/A	Enumeration: <ul style="list-style-type: none">0—Offline1—Online.	N/A
VirtualServers	The virtual server number of the server.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A

GLB/LocalServers

This table contains information about the local server.

XML structure

```
<GLB>
  <LocalServers>
    <LocalServer>
      <DataCenter></DataCenter>
      <Name></Name>
      <ServiceEnable></ServiceEnable>
      <Online></Online>
    </LocalServer>
  </LocalServers>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	LocalServers
Table type	Multi-instance table
Row name	LocalServer
Restrictions	None.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Name	Local server name.	Index	String, case-insensitive.	Must be localhost.
ServiceEnable	Enable the server function.	N/A	Enumeration: <ul style="list-style-type: none">0—Disable1—Enable.	N/A
Online	Online state of the local server.	N/A	Enumeration: <ul style="list-style-type: none">0—Offline	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 1—Online. 	

GLB/ServerIPAddresses

This table contains information about the IP address of a server.

XML structure

```

<GLB>
  <ServerIPAddresses>
    <ServerIPAddress>
      <DataCenter></DataCenter>
      <Server></Server>
      <Ipv4Address></Ipv4Address>
    </ServerIPAddress>
  </ServerIPAddresses>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	ServerIPAddresses
Table type	Multi-instance table
Row name	ServerIPAddress
Restrictions	Only server address can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Server name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	Specify the IPv4 address of the server.	Index	Hexadecimal string, colon-separated.	Example: 1.1.1.1. Loopback addresses, multicast addresses and broadcast addresses are not supported, and addresses

Column name	Column description	Column type	Data type and restrictions	Remarks
				such as 0.x.x.x are not supported either.

GLB/ServerVirtualServers

This table contains information about the virtual servers of a server.

XML structure

```

<GLB>
  <ServerVirtualServers>
    <ServerVirtualServer>
      <DataCenter></DataCenter>
      <Server></Server>
      <VirtualServer></VirtualServer>
    </ServerVirtualServer>
  </ServerVirtualServers>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	ServerVirtualServers
Table type	Multi-instance table
Row name	ServerVirtualServer
Restrictions	Only virtual server of server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Server name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualServer	Virtual server name.	Index	String, case-insensitive. Length: 1 to 63	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	

GLB/LocalVirtualServers

This table contains information about the virtual server of a local server.

XML structure

```

<GLB>
  <LocalVirtualServers>
    <LocalVirtualServer>
      <DataCenter></DataCenter>
      <LocalServer></LocalServer>
      <VirtualServerType></VirtualServerType>
      <VirtualServer></VirtualServer>
    </LocalVirtualServer>
  </LocalVirtualServers>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	LocalVirtualServers
Table type	Multi-instance table
Row name	LocalVirtualServer
Restrictions	Only virtual server of local server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DataCenter	Name of the data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
LocalServer	Local server name.	Index	String, case-insensitive.	Must be localhost.
VirtualServerType	Virtual server type.	Index	Enumeration: <ul style="list-style-type: none"> 0—virtual server 1—virtual IP. 	N/A

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

GLB/GlobalDNSListeners

This table contains information about a global DNS listener.

XML structure

```

<GLB>
  <GlobalDNSListeners>
    <GlobalDNSListener>
      <Name></Name>
      <Ipv4Address></Ipv4Address>
      <Ipv4PortNumber></Ipv4PortNumber>
      <ServiceEnable></ServiceEnable>
      <Fallback></Fallback>
    </GlobalDNSListener>
  </GlobalDNSListeners>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSListeners
Table type	Multi-instance table
Row name	GlobalDNSListener
Restrictions	Only global listener can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global DNS listener.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1. Loopback addresses, multicast addresses, and broadcast addresses

Column name	Column description	Column type	Data type and restrictions	Remarks
				are not supported, and addresses such as 0.x.x.x are not supported either.
Ipv4PortNumber	IPv4 port number.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
ServiceEnable	Enable the global DNS listener.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable 1—Enable. 	N/A
Fallback	Fallback action.	N/A	Enumeration: <ul style="list-style-type: none"> 0—No response. 1—Reject. 	N/A

GLB/GlobalDNSListenerStats

This table contains statistics about a global DNS listener.

XML structure

```

<GLB>
  <GlobalDNSListenerStats>
    <GlobalDNSListenerStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <ReceivedRequests></ReceivedRequests>
      <ReceivedValidRequests></ReceivedValidRequests>
      <UnrespondedRequests></UnrespondedRequests>
      <RejectedRequests></RejectedRequests>
    </GlobalDNSListenerStat>
  </GlobalDNSListenerStats>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSListenerStats
Table type	Multi-instance table
Row name	GlobalDNSListenerStat
Restrictions	Only stats of global listener can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global DNS listener.	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	Slot ID of the card on the 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 global DNS listener received from the device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ReceivedValidRequests	Number of valid requests that the global DNS listener received from the device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
UnrespondedRequests	Number of unresponded requests that the global DNS listener received from the device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
RejectedRequests	Number of rejected requests that the global DNS listener received from the device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

GLB/GlobalDNSListenerTypeStats

This table contains different types of statistics about a global DNS listener.

XML structure

```
<GLB>
  <GlobalDNSListenerTypeStats>
    <GlobalDNSListenerTypeStat>
```



```

<Name></Name>
<Type></Type>
<ChassisID></ChassisID>
<SlotID></SlotID>
<CPUID></CPUID>
<ReceivedRequests></ReceivedRequests>
<ReceivedValidRequests></ReceivedValidRequests>
<UnrespondedRequests></UnrespondedRequests>
<RejectedRequests></RejectedRequests>
</GlobalDNSListenerTypeStat>
</GlobalDNSListenerTypeStats>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSListenerTypeStats
Table type	Multi-instance table
Row name	GlobalDNSListenerTypeStat
Restrictions	Only stats of global listener can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global DNS listener.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Type	Type of the global DNS listener statistics.	Index	Enumeration: <ul style="list-style-type: none"> 0—A. 1—AAAA. 2—CNAME. 3—MX. 4—NS. 5—PTR. 6—SOA. 	N/A
ChassisID	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
CPUID	ID of the CPU on the card.	Index	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ReceivedRequests	Number of requests that the global DNS listener received from the device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ReceivedValidRequests	Number of valid requests that the global DNS listener received from the device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
UnrespondedRequests	Number of unresponded requests that the global DNS listener received from the device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
RejectedRequests	Number of rejected requests that the global DNS listener received from the device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

GLB/GlobalDNSMaps

This table contains information about a global DNS map.

XML structure

```

<GLB>
  <GlobalDNSMaps>
    <GlobalDNSMap>
      <Name></Name>
      <TTL></TTL>
      <PredictorAlternate></PredictorAlternate>
      <PredictorFallback></PredictorFallback>
      <PredictorPreferred></PredictorPreferred>
      <ServiceEnable></ServiceEnable>
    </GlobalDNSMap>
  </GlobalDNSMaps>
</GLB>

```


Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSMaps
Table type	Multi-instance table
Row name	GlobalDNSMap
Restrictions	Only global dns map can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
TTL	TTL time of the DNS recorder.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second.	N/A
PredictorAlternate	Alternative predictor algorithm for GLB to select a virtual server pool to service a DNS request.	N/A	Enumeration: <ul style="list-style-type: none"> 0—None. 1—Round-robin. 2—Random. 3—Topology. 4—Proximity. 	N/A
PredictorFallback	Backup predictor algorithm for GLB to select a virtual server pool to service a DNS request.	N/A	Enumeration: <ul style="list-style-type: none"> 0—None. 1—Round-robin. 2—Random. 3—Topology. 4—Proximity. 	N/A
PredictorPreferred	Preferred predictor algorithm for GLB to select a virtual server pool to service a DNS request.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Round-robin 2—Random. 3—Topology. 4—Proximity. 	N/A
ServiceEnable	Enable the global DNS map.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A

GLB/GlobalDNSMapDomains

This table contains information about the domains of a global DNS map.

XML structure

```
<GLB>
  <GlobalDNSMapDomains>
    <GlobalDNSMapDomain>
      <GlobalDNSMap></GlobalDNSMap>
      <Domain></Domain>
    </GlobalDNSMapDomain>
  </GlobalDNSMapDomains>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSMapDomains
Table type	Multi-instance table
Row name	GlobalDNSMapDomain
Restrictions	Only domain of global dns map can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalDNS Map	Name of the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Domain	Domain for the global DNS map.	Index	String, case-insensitive. Length: 1 to 253 characters.	N/A

GLB/GlobalDNSMapVirtualServerPools

This table contains information about the virtual server pool of a global DNS map.

XML structure

```
<GLB>
  <GlobalDNSMapVirtualServerPools>
```



```

<GlobalDNSMapVirtualServerPool>
  <GlobalDNSMap></GlobalDNSMap>
  <GlobalVirtualServerPool></GlobalVirtualServerPool>
  <Weight></Weight>
</GlobalDNSMapVirtualServerPool>
</GlobalDNSMapVirtualServerPools>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSMapVirtualServerPools
Table type	Multi-instance table
Row name	GlobalDNSMapVirtualServerPool
Restrictions	Only virtual server pool of global dns map can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalDNS Map	Name of the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
GlobalVirtualServerPool	Virtual server pool for the global DNS map.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the global virtual pool.	N/A	Unsigned integer. Value range: 1 to 255.	A larger number means a higher weight.

GLB/GlobalDNSMapStats

This table contains statistics about a global DNS map.

XML structure

```

<GLB>
  <GlobalDNSMapStats>
    <GlobalDNSMapStat>
      <Name></Name>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
    </GlobalDNSMapStat>
  </GlobalDNSMapStats>
</GLB>

```



```

    <MatchedDnsReqs></MatchedDnsReqs>
    <MatchedDnsRequestRate></MatchedDnsRequestRate>
  </GlobalDNSMapStat>
</GlobalDNSMapStats>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSMapStats
Table type	Multi-instance table
Row name	GlobalDNSMapStat
Restrictions	Only stats of global dns map can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global 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	Slot ID of the card on the 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
MatchedDns Reqs	Matched DNS requests that the global DNS listener received.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
MatchedDns RequestRate	Matched DNS requests that the global DNS map received per second.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

GLB/GlobalVirtualServerPools

This table contains information about a global virtual server pool.

XML structure

```
<GLB>
  <GlobalVirtualServerPools>
    <GlobalVirtualServerPool>
      <Name></Name>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <PredictorAlternate></PredictorAlternate>
      <PredictorFallback></PredictorFallback>
      <PredictorPreferred></PredictorPreferred>
      <BusyProtectEnable></BusyProtectEnable>
      <TotalVirtualServers></TotalVirtualServers>
      <ActiveVirtualServers></ActiveVirtualServers>
    </GlobalVirtualServerPool>
  </GlobalVirtualServerPools>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalVirtualServerPools
Table type	Multi-instance table
Row name	GlobalVirtualServerPool
Restrictions	Only global virtual server pool can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ProbeSuccessCriteria	Probe success criteria for virtual server pool.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
PredictorAlternate	Alternative predictor algorithm for GLB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: <ul style="list-style-type: none">0—None.1—Round-robin.2—Random.3—Least-connect ion(not supported)4—Topology.5—Proximity.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PredictorFallback	Backup predictor algorithm for GLB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: <ul style="list-style-type: none"> 0—None. 1—Round-robin. 2—Random. 3—Least-connect ion(not supported) 4—Topology. 5—Proximity. 	N/A
PredictorPreferred	Preferred predictor algorithm for GLB to select a virtual server to be the DNS recorder for client response.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Round-robin. 2—Random. 3—Least-connect ion(not supported) 4—Topology. 5—Proximity. 	N/A
BusyProtectEnable	Enable link protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
TotalVirtualServers	Total number of virtual servers in the global virtual server pool.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
ActiveVirtualServers	Active number of virtual servers in the global virtual server pool.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A

GLB/GVSPVirtualServers

This table contains information about a virtual server of the global virtual server pool.

XML structure

```

<GLB>
  <GVSPVirtualServers>
    <GVSPVirtualServer>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <DataCenter></DataCenter>
      <Server></Server>
      <VirtualServer></VirtualServer>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <Link></Link>
      <Weight></Weight>
      <Ipv4Address>

```



```

    <PortNumber>
    <State></State>
  </GVSPVirtualServer>
</GVSPVirtualServers>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GVSPVirtualServers
Table type	Multi-instance table
Row name	GVSPVirtualServer
Restrictions	Only virtual server can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DataCenter	Name of the virtual server's data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Name of the virtual server's server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualServer	Virtual server of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
ProbeSuccessCriteria	Probe success criteria for virtual server pool.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	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.	A larger number means a higher weight.
Ipv4Address	IPv4 address.	N/A	String. Dotted decimal	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
			notation.	
PortNumber	Port number.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
State	State of the virtual server.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 2—Busy. 	N/A

GLB/GVSPVirtualIPs

This table contains information about the virtual IP address of a global virtual server pool.

XML structure

```

<GLB>
  <GVSPVirtualIPs>
    <GVSPVirtualIP>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <DataCenter></DataCenter>
      <Server></Server>
      <VirtualIP></VirtualIP>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <Link></Link>
      <Weight></Weight>
      <State></State>
    </GVSPVirtualIP>
  </GVSPVirtualIPs>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GVSPVirtualIPs
Table type	Multi-instance table
Row name	GVSPVirtualIP
Restrictions	Only virtual ip can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DataCenter	Name of the virtual IP's data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Name of the virtual IP's server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualIP	Virtual IP address of the global virtual server pool.	Index	String. Dotted decimal notation.	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.
ProbeSuccessCriteria	Probe success criteria for virtual IP.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
Link	Link of the virtual IP.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
Weight	Weight of the virtual IP.	N/A	Unsigned integer. Value range: 1 to 255.	A larger number means a higher weight.
State	State of the virtual IP.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 2—Busy. 	N/A

GLB/GVSPProbes

This table contains information the probe method of a global virtual server pool.

XML structure

```

<GLB>
  <GVSPProbes>
    <GVSPProbe>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <Probe></Probe>
    </GVSPProbe>
  </GVSPProbes>

```


</GLB>

Table description

Item	Description
Feature name	GLB
Table name	GVSPProbes
Table type	Multi-instance table
Row name	GVSPProbe
Restrictions	Only global virtual server pool probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A

GLB/GVSPVirtualServerProbes

This table contains information the probe method of a virtual server.

XML structure

```
<GLB>
  <GVSPVirtualServerProbes>
    <GVSPVirtualServerProbe>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <DataCenter></DataCenter>
      <Server></Server>
      <VirtualServer></VirtualServer>
      <Probe></Probe>
      <State></State>
    </GVSPVirtualServerProbe>
  </GVSPVirtualServerProbes>
</GLB>
```


Table description

Item	Description
Feature name	GLB
Table name	GVSPVirtualServerProbes
Table type	Multi-instance table
Row name	GVSPVirtualServerProbe
Restrictions	Only virtual server probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DataCenter	Name of the virtual server's data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Name of the virtual server's server.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
VirtualServer	Virtual server of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the virtual server member.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
State	Probe state of the virtual server.	N/A	Enumeration: <ul style="list-style-type: none">• 0—Invalid.• 1—Succeeded.• 2—Failed.• 3—In progress	N/A

GLB/GVSPVIPProbes

This table contains information the probe method of a virtual IP.

XML structure

```
<GLB>
  <GVSPVIPProbes>
    <GVSPVIPProbe>
```



```

    <GlobalVirtualServerPool></GlobalVirtualServerPool>
    <DataCenter></DataCenter>
    <Server></Server>
    <VirtualIP></VirtualIP>
    <Probe></Probe>
    <State></State>
  </GVSPVIPProbe>
</GVSPVIPProbes>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GVSPVIPProbes
Table type	Multi-instance table
Row name	GVSPVIPProbe
Restrictions	Only global virtual ip probe can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
DataCenter	Name of the virtual IP's data center.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Server	Name of the virtual IP's server.	Index	String, case-insensitive. Length: 1 to 63 characters.	Must be "localhost"
VirtualIP	Virtual IP address of the virtual IP.	Index	String. Dotted decimal notation.	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.
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Probe	Probe method for the virtual IP.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
State	Probe state of the virtual IP.	N/A	Enumeration: <ul style="list-style-type: none"> 0— Invalid. 1— Succeeded. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—Failed. 3---In progress 	

GLB/GTopoRegionVSPs

This table contains information about the mapping between a global region and a global virtual server pool.

XML structure

```

<GLB>
  <GTopoRegionVSPs>
    <GTopoRegionVSP>
      <GlobalRegion></GlobalRegion>
      <GlobalVirtualServerPool></GlobalVirtualServerPool>
      <Priority></Priority>
    </GTopoRegionVSP>
  </GTopoRegionVSPs>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GTopoRegionVSPs
Table type	Multi-instance table
Row name	GTopoRegionVSP
Restrictions	Only Topology Region VSP can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalRegion	Name of the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
GlobalVirtualServerPool	Name of the global virtual server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Priority	Priority of the global region.	N/A	Unsigned integer. Value range: 1 to 255.	A larger number means a higher priority.

GLB/GTopoRegionIPv4s

This table contains information about the mapping between a global region and an IP address.

XML structure

```
<GLB>
  <GTopoRegionIPv4s>
    <GTopoRegionIPv4>
      <GlobalRegion></GlobalRegion>
      <IPv4Address></IPv4Address>
      <IPv4MaskLength></IPv4MaskLength>
      <Priority></Priority>
    </GTopoRegionIPv4>
  </GTopoRegionIPv4s>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GTopoRegionIPv4s
Table type	Multi-instance table
Row name	GTopoRegionIPv4
Restrictions	Only Topology Region IP can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalRegion	Name of the global topology region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
IPv4Addresses	IPv4 address.	Index	String. Dotted decimal notation.	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.	Index	Unsigned integer. Value range: 0 to 32.	The column cannot be configured if no IPv4 address is configured.
Priority	Priority of the global topology region.	N/A	Unsigned integer. Value range: 1 to 255.	A larger number means a higher priority.

GLB/GlobalRegions

This table contains information about a global region.

XML structure

```
<GLB>
  <GlobalRegions>
    <GlobalRegion>
      <Name></Name>
    </GlobalRegion>
  </GlobalRegions>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalRegions
Table type	Multi-instance table
Row name	GlobalRegion
Restrictions	Only region can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	Name

GLB/GlobalRegionISPs

This table contains information about the global ISP for a global region.

XML structure

```
<GLB>
  <GlobalRegionISPs>
    <GlobalRegionISP>
      <GlobalRegion></GlobalRegion>
      <GlobalISP></GlobalISP>
    </GlobalRegionISP>
  </GlobalRegionISPs>
```


</GLB>

Table description

Item	Description
Feature name	GLB
Table name	GlobalRegionISPs
Table type	Multi-instance table
Row name	GlobalRegionISP
Restrictions	Only Region ISP can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalRegion	Name of the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
GlobalISP	ISP for the global region.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/GlobalISPs

This table contains information about a global ISP.

XML structure

```
<GLB>
  <GlobalISPs>
    <GlobalISP>
      <Name></Name>
      <Origin></Origin>
    </GlobalISP>
  </GlobalISPs>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalISPs

Table type	Multi-instance table
Row name	GlobalISP
Restrictions	Only ISP can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the global ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Origin	Origin of the IPv4 address.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Import. 2—Manual. 3—Import and manual. 	N/A

GLB/GlobalIpv4ISPAddressGroups

This table contains information about a global IPv4 ISP address group.

XML structure

```

<GLB>
  <GlobalIpv4ISPAddressGroups>
    <GlobalIpv4ISPAddressGroup>
      <GlobalISP></GlobalISP>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Origin></Origin>
    </GlobalIpv4ISPAddressGroup>
  </GlobalIpv4ISPAddressGroups>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalIpv4ISPAddressGroups
Table type	Multi-instance table
Row name	GlobalIpv4ISPAddressGroup
Restrictions	Only IPv4 ISP can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalISP	Name of the global ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
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 the IPv4 address.	N/A	Enumeration: <ul style="list-style-type: none">• 1—Import.• 2—Manual.• 3—Import and manual.	N/A

GLB/GlobalISPFile

This table contains information about a global ISP file.

XML structure

```
<GLB>
  <GlobalISPFile>
    <FileName></FileName>
  </GlobalISPFile>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalISPFile
Table type	Single-instance table
Row name	N/A
Restrictions	Only ISP file can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
FileName	Name of the global ISP file.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

GLB/GlobalVRFPproximityParameters

This table contains information about global proximity parameters.

XML structure

```
<GLB>
  <GlobalVRFPproximityParameters>
    <GlobalVRFPproximityParameter>
      <VRF></VRF>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Timeout></Timeout>
      <RTTWeight></RTTWeight>
      <TTLWeight></TTLWeight>
      <InBandwidthWeight></InBandwidthWeight>
      <OutBandwidthWeight></OutBandwidthWeight>
      <CostWeight></CostWeight>
      <MaxNumber></MaxNumber>
      <DefaultProbe></DefaultProbe>
    </GlobalVRFPproximityParameter>
  </GlobalVRFPproximityParameters>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalVRFPproximityParameters
Table type	Multi-instance table
Row name	GlobalVRFPproximityParameter
Restrictions	Only proximity parameter can be configured 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 the public network.
Ipv4PrefixLength	IPv4 mask length.	N/A	Unsigned integer. Value range: 0 to 32.	Zero means a natural mask.
Timeout	The lifetime of global proximity entries.	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	Upper limit for global proximity entries.	N/A	Unsigned integer. Value range: 0 to 10000000.	N/A
DefaultProbe	Default probe method for the global proximity.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

GLB/GlobalIpv4ProximityTables

This table contains information about global IPv4 proximity items.

XML structure

```

<GLB>
  <GlobalIpv4ProximityTables>
    <GlobalIpv4ProximityTable>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>

```



```

    <Ipv4PrefixLength></Ipv4PrefixLength>
    <Lifetime></Lifetime>
    <BestLink></BestLink>
  </GlobalIpv4ProximityTable>
</GlobalIpv4ProximityTables>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalIpv4ProximityTables
Table type	Multi-instance table
Row name	GlobalIpv4ProximityTable
Restrictions	Only IPv4 proximity items can be configured 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	Slot ID of the card on the 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 the 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 global proximity items.	N/A	Unsigned integer. Value range: 0 to 3600.	N/A
BestLink	The best link name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/GlobalIpv4ProximityNodes

This table contains information about the real servers of global IPv4 proximity items.

XML structure

```
<GLB>
  <GlobalIpv4ProximityNodes>
    <GlobalIpv4ProximityNode>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Priority></Priority>
      <Link></Link>
    </GlobalIpv4ProximityNode>
  </GlobalIpv4ProximityNodes>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalIpv4ProximityNodes
Table type	Multi-instance table
Row name	GlobalIpv4ProximityNode
Restrictions	Only IPv4 proximity node can be configured 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	Slot ID of the card on the 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 the 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
Link	Link name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

GLB/GlobalProximityStats

This table contains information about global proximity entries.

XML structure

```

<GLB>
  <GlobalProximityStats>
    <GlobalProximityStat>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <VRF></VRF>
      <TotalCount></TotalCount>
      <Ipv4Count></Ipv4Count>
    </GlobalProximityStat>
  </GlobalProximityStats>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalProximityStats
Table type	Multi-instance table
Row name	GlobalProximityStat
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	Slot ID of the card on the 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 the public network.
TotalCount	Total number of global proximity entries.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
Ipv4Count	The number of global IPv4 proximity entries.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A

GLB/GlobalDNSZones

This table contains information about a global DNS zone.

XML structure

```
<GLB>
  <GlobalDNSZones>
    <GlobalDNSZone>
      <DomainName></DomainName>
      <TTL></TTL>
    </GlobalDNSZone>
  </GlobalDNSZones>
</GLB>
```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZones
Table type	Multi-instance table
Row name	GlobalDNSZone

Restrictions	Only global DNS zone can be gotten by this table.
--------------	---------------------------------------------------

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Domain Name	Domain name of the global 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 global DNS zone.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second.	N/A

GLB/GlobalDNSZoneSOAs

This table contains information about an SOA resource record for a global DNS zone.

XML structure

```

<GLB>
  <GlobalDNSZoneSOAs>
    <GlobalDNSZoneSOA>
      <Zone></Zone>
      <PrimaryNS></PrimaryNS>
      <ResponsibleMail></ResponsibleMail>
      <Serial></Serial>
      <Refresh></Refresh>
      <Retry></Retry>
      <Expire></Expire>
      <MinTTL></MinTTL>
    </GlobalDNSZoneSOA>
  </GlobalDNSZoneSOAs>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneSOAs
Table type	Multi-instance table
Row name	GlobalDNSZoneSOA
Restrictions	Only SOA record of global DNS zone can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the global 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 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Responsible Mail	Responsible mail address.	N/A	String, case-insensitive. Length: 1 to 253 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).
Serial	Serial number	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$.	N/A
Refresh	Refresh interval	N/A	Unsigned integer. Value range: 300 to 2419200. Unit: second.	N/A
Retry	Retry interval	N/A	Unsigned integer. Value range: 500 to $2^{32}-1$. Unit: second.	N/A
Expire	Expiration time	N/A	Unsigned integer. Value range: 500 to $2^{32}-1$. Unit: second.	N/A
MinTTL	Minimum TTL	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second.	N/A

GLB/GlobalDNSZoneMXRRs

This table contains information about MX resource records for a global DNS zone.

XML structure

```

<GLB>
  <GlobalDNSZoneMXRRs>
    <GlobalDNSZoneMXRR>
      <Zone></Zone>
      <Host></Host>
    
```



```

    <MailServer></MailServer>
    <Preference></Preference>
  </GlobalDNSZoneMXRR>
</GlobalDNSZoneMXRRs>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneMXRRs
Table type	Multi-instance table
Row name	GlobalDNSZoneMXRR
Restrictions	Only MX records of global DNS zone can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the global 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

GLB/GlobalDNSZoneCNAMERRs

This table contains information about CNAME resource records for a global DNS zone.

XML structure

```

<GLB>
  <GlobalDNSZoneCNAMERRs>
    <GlobalDNSZoneCNAMERR>
      <Zone></Zone>
      <Alias></Alias>
    </GlobalDNSZoneCNAMERR>
  </GlobalDNSZoneCNAMERRs>
</GLB>

```



```

    <Canonical></Canonical>
  </GlobalDNSZoneCNAMERR>
</GlobalDNSZoneCNAMERRs>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneCNAMERRs
Table type	Multi-instance table
Row name	GlobalDNSZoneCNAMERR
Restrictions	Only CNAME records of global DNS zone can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the global 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 (.).

GLB/GlobalDNSZoneNSRRs

This table contains information about NS resource records for a global DNS zone.

XML structure

```

<GLB>
  <GlobalDNSZoneNSRRs>
    <GlobalDNSZoneNSRR>
      <Zone></Zone>
      <SubName></SubName>
      <NameServerName></NameServerName>
    </GlobalDNSZoneNSRR>
  </GlobalDNSZoneNSRRs>
</GLB>

```


Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSZoneNSRRs
Table type	Multi-instance table
Row name	GlobalDNSZoneNSRR
Restrictions	Only NS records of global DNS zone can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Zone	Name of the global 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 name server name	Index	String, case-insensitive. Length: 1 to 254 characters.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).

GLB/GlobalDNSRevZones

This table contains information about a global DNS reverse zone.

XML structure

```
<GLB>
  <GlobalDNSRevZones>
    <GlobalDNSRevZone>
      <IPv4Address></IPv4Address>
      <IPv4PrefixLength></IPv4PrefixLength>
      <TTL></TTL>
    </GlobalDNSRevZone>
  </GlobalDNSRevZones>
</GLB>
```


Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSRevZones
Table type	Multi-instance table
Row name	GlobalDNSRevZone
Restrictions	Only global DNS reverse zone can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Addresses	IPv4 address of the global reverse zone.	Index	String. Dotted decimal notation.	Example: 1.1.1.1.
IPv4PrefixLength	IPv4 mask length of the global reverse zone.	Index	Unsigned integer. Value range: 0 to 32.	N/A
TTL	TTL time of the global reverse zone.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: second.	N/A

GLB/GlobalDNSRevZoneRRs

This table contains information about a resource record for a global DNS reverse zone.

XML structure

```
<GLB>
  <GlobalDNSRevZoneRRs>
    <GlobalDNSRevZoneRR>
      <ReverseZoneIP></ReverseZoneIP>
      <ReverseZoneMask></ReverseZoneMask>
      <IPv4Address></IPv4Address>
      <DomainName></DomainName>
    </GlobalDNSRevZoneRR>
  </GlobalDNSRevZoneRRs>
</GLB>
```


Table description

Item	Description
Feature name	GLB
Table name	GlobalDNSRevZoneRRs
Table type	Multi-instance table
Row name	GlobalDNSRevZoneRR
Restrictions	Only records of global DNS reverse zone can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ReverseZoneIP	IPv4 address of the global reverse zone.	Index	String. Dotted decimal notation.	Example: 1.1.1.1.
ReverseZoneMask	IPv4 mask length of the global 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 (.).

GLB/GlobalIpv4ISPLists

This table contains information about a global IPv4 ISP address group.

XML structure

```
<GLB>
  <GlobalIpv4ISPLists>
    <GlobalIpv4ISPList>
      <GlobalISP></GlobalISP>
      <AllCount></AllCount>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Origin></Origin>
    </GlobalIpv4ISPList>
  </GlobalIpv4ISPLists>
</GLB>
```


Table description

Item	Description
Feature name	GLB
Table name	GlobalIpv4ISPLists
Table type	Multi-instance table
Row name	GlobalIpv4ISPList
Restrictions	Only IPv4 ISP can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GlobalISP	Name of the global ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
AllCount	The number of all IPv4 address.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
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 the IPv4 address.	N/A	Enumeration: <ul style="list-style-type: none">1—Import.2—Manual.3—Import and manual.	N/A

GLB/GlobalIpv4ProximityTableLists

This table contains information about global IPv4 proximity items.

XML structure

```
<GLB>
  <GlobalIpv4ProximityTableLists>
    <GlobalIpv4ProximityTableList>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
```



```

    <VRF></VRF>
    <Ipv4Address></Ipv4Address>
    <Ipv4PrefixLength></Ipv4PrefixLength>
    <AllCount></AllCount>
    <Lifetime></Lifetime>
    <BestLink></BestLink>
  </GlobalIpv4ProximityTableList>
</GlobalIpv4ProximityTableLists>
</GLB>

```

Table description

Item	Description
Feature name	GLB
Table name	GlobalIpv4ProximityTables
Table type	Multi-instance table
Row name	GlobalIpv4ProximityTable
Restrictions	Only IPv4 proximity items can be configured 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	Slot ID of the card on the 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 the 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
AllCount	The number of all global proximity items.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
Lifetime	Lifetime of global proximity	N/A	Unsigned integer. Value range: 0 to 3600.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	items.			
BestLink	The best link name.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

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GRPC

GRPC/Configuration

This table contains GRPC configuration information.

XML structure

```
<GRPC>
  <Configuration>
    <State></State>
    <Port></Port>
  </Configuration>
</GRPC>
```

Table description

Item	Description
Feature name	GRPC
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
State	Status of the GRPC	N/A	Enumeration: <ul style="list-style-type: none">enable.disable.	N/A
Port	Port number of the GRPC	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

GRPC/SensorGroups

This table contains GRPC sensor group information.

XML structure

```
<GRPC>
```



```

<SensorGroups>
  <SensorGroup>
    <GroupName></GroupName>
    <SensorPaths>
      <SensorPath>
        <Path></Path>
      </SensorPath>
    </SensorPaths>
  </SensorGroup>
</SensorGroups>
</GRPC>

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Sensor group name	index	String. Length: 1 to 31 characters.	N/A
SensorPaths	Sensor path information	Sublist	N/A	For more information, see the SensorPaths table.

GRPC/SensorGroups/SensorPaths

This table contains GRPC sensor path information.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Sensor group name	Index	Index of the parent table.	This column cannot be present.
Path	Filter column path	Index	String. Case insensitive. Length: 1 to 127 characters.	N/A
Filters	Filter information	Sublist	N/A	For more information, see the Filters table.

GRPC/DestinationGroups

This table contains GRPC destination group information.

XML structure

```
<GRPC>
  <DestinationGroups>
    <DestinationGroup>
      <GroupName></GroupName>
      <Destinations>
        <Destination>
          <IpAddress></IpAddress>
          <VRF></VRF>
          <Port></Port>
        </Destination>
      </Destinations>
    </DestinationGroup>
  </DestinationGroups>
</GRPC>
```


Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Destination group name	index	String. Length: 1 to 31 characters.	N/A
Destinations	Destination info	Sublist	N/A	For more information, see the Destinations table.

GRPC/DestinationGroups/Destinations

This table contains GRPC destination information.

XML structure

Please refer to the XML structure of GRPC/DestinationGroups.

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Destination group name	Index	Index of the parent table.	This column cannot be present.
IpAddress	Address of the destination group	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 address is a public network address, leave this column empty.
Port	Port number of the destination group	Index	Unsigned integer. Value range: 1 to 65535.	N/A

GRPC/Subscriptions

This table contains GRPC subscription information.

XML structure

```

<GRPC>
  <Subscriptions>
    <Subscription>
      <SubscriptionName></SubscriptionName>
      <SensorProfiles>
        <SensorProfile>
          <GroupName></GroupName>
          <SampleInterval></SampleInterval>
        </SensorProfile>
      </SensorProfiles>
      <DestinationProfiles>
        <DestinationProfile>
          <GroupName></GroupName>
        </DestinationProfile>
      </DestinationProfiles>
    </Subscription>
  </Subscriptions>
</GRPC>

```

Table description

Item	Description
Feature name	GRPC
Table name	Subscriptions

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SubscriptionName	Subscription name	Index	String. Length: 1 to 31 characters.	N/A
SensorProfiles	Sensor profile information	Sublist	N/A	For more information, see the SensorProfiles table.
DestinationProfiles	Destination profile information	Sublist	N/A	For more information, see the DestinationProfiles table.

GRPC/Subscriptions/SensorProfiles

This table contains GRPC sensor profile information.

XML structure

Please refer to the XML structure of GRPC/Subscriptions.

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SubscriptionName	Subscription name	Index	Index of the parent table.	This column cannot be present.
GroupName	Sensor group name	Index	String. Length: 1 to 31 characters.	N/A
SampleInterval	Sample interval in seconds	N/A	Unsigned integer. Value range: 1 to 86400.	If this column is present, it means that the real time event works.

GRPC/Subscriptions/DestinationProfiles

This table contains GRPC destination profile information.

XML structure

Please refer to the XML structure of GRPC/Subscriptions.

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SubscriptionName	Subscription name	Index	Index of the parent table.	This column cannot be present.
GroupName	Destination group name	Index	String. Length: 1 to 31 characters.	N/A

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GRPC

GRPC/Configuration

This table contains GRPC configuration information.

XML structure

```
<GRPC>
  <Configuration>
    <State></State>
    <Port></Port>
  </Configuration>
</GRPC>
```

Table description

Item	Description
Feature name	GRPC
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
State	Status of the GRPC	N/A	Enumeration: <ul style="list-style-type: none">enable.disable.	N/A
Port	Port number of the GRPC	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

GRPC/SensorGroups

This table contains GRPC sensor group information.

XML structure

```
<GRPC>
  <SensorGroups>
    <SensorGroup>
      <GroupName></GroupName>
      <SensorPaths>
        <SensorPath>
          <Path></Path>
        </SensorPath>
      </SensorPaths>
    </SensorGroup>
  </SensorGroups>
</GRPC>
```

Table description

Item	Description
Feature name	GRPC
Table name	SensorGroups
Table type	Multi-instance table
Row name	SensorGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Sensor group name	index	String. Length: 1 to 31 characters.	N/A
SensorPaths	Sensor path information	Sublist	N/A	For more information, see the SensorPaths table.

GRPC/SensorGroups/SensorPaths

This table contains GRPC sensor path information.

XML structure

Please refer to the XML structure of GRPC/SensorGroups.

Table description

Item	Description
Feature name	GRPC
Table name	SensorPaths
Table type	Multi-instance table
Row name	SensorPath
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Sensor group name	Index	Index of the parent table.	This column cannot be present.
Path	Filter column path	Index	String. Case insensitive. Length: 1 to 127 characters.	N/A
Filters	Filter information	Sublist	N/A	For more information, see the Filters table.

GRPC/DestinationGroups

This table contains GRPC destination group information.

XML structure

```
<GRPC>
  <DestinationGroups>
    <DestinationGroup>
      <GroupName></GroupName>
      <Destinations>
        <Destination>
          <IpAddress></IpAddress>
          <VRF></VRF>
          <Port></Port>
        </Destination>
      </Destinations>
    </DestinationGroup>
  </DestinationGroups>
</GRPC>
```


Table description

Item	Description
Feature name	GRPC
Table name	DestinationGroups
Table type	Multi-instance table
Row name	DestinationGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Destination group name	index	String. Length: 1 to 31 characters.	N/A
Destinations	Destination info	Sublist	N/A	For more information, see the Destinations table.

GRPC/DestinationGroups/Destinations

This table contains GRPC destination information.

XML structure

Please refer to the XML structure of GRPC/DestinationGroups.

Table description

Item	Description
Feature name	GRPC
Table name	Destinations
Table type	Multi-instance table
Row name	Destination
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	Destination group name	Index	Index of the parent table.	This column cannot be present.
IpAddress	Address of the destination group	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 address is a public network address, leave this column empty.
Port	Port number of the destination group	Index	Unsigned integer. Value range: 1 to 65535.	N/A

GRPC/Subscriptions

This table contains GRPC subscription information.

XML structure

```

<GRPC>
  <Subscriptions>
    <Subscription>
      <SubscriptionName></SubscriptionName>
      <SensorProfiles>
        <SensorProfile>
          <GroupName></GroupName>
          <SampleInterval></SampleInterval>
        </SensorProfile>
      </SensorProfiles>
      <DestinationProfiles>
        <DestinationProfile>
          <GroupName></GroupName>
        </DestinationProfile>
      </DestinationProfiles>
    </Subscription>
  </Subscriptions>
</GRPC>

```

Table description

Item	Description
Feature name	GRPC
Table name	Subscriptions

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SubscriptionName	Subscription name	Index	String. Length: 1 to 31 characters.	N/A
SensorProfiles	Sensor profile information	Sublist	N/A	For more information, see the SensorProfiles table.
DestinationProfiles	Destination profile information	Sublist	N/A	For more information, see the DestinationProfiles table.

GRPC/Subscriptions/SensorProfiles

This table contains GRPC sensor profile information.

XML structure

Please refer to the XML structure of GRPC/Subscriptions.

Table description

Item	Description
Feature name	GRPC
Table name	SensorProfiles
Table type	Multi-instance table
Row name	SensorProfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SubscriptionN	Subscription	Index	Index of the parent table.	This column cannot be

Column name	Column description	Column type	Data type and restrictions	Remarks
ame	name			present.
GroupName	Sensor group name	Index	String. Length: 1 to 31 characters.	N/A
SampleInterval	Sample interval in seconds	N/A	Unsigned integer. Value range: 1 to 86400.	If this column is present, it means that the real time event works.

GRPC/Subscriptions/DestinationProfiles

This table contains GRPC destination profile information.

XML structure

Please refer to the XML structure of GRPC/Subscriptions.

Table description

Item	Description
Feature name	GRPC
Table name	DestinationProfiles
Table type	Multi-instance table
Row name	DestinationProfile
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SubscriptionName	Subscription name	Index	Index of the parent table.	This column cannot be present.
GroupName	Destination group name	Index	String. Length: 1 to 31 characters.	N/A

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GRPC

GRPC/Configuration

Message	Explanation
Process gRPC doesn't enable.	Enable GRPC first.
Please stop gRPC server first.	Disable GRPC first.

GRPC/SensorGroups

Message	Explanation
The sensor-group doesn't exist.	Can't find sensor-group by the sensor-group name in the message.
Incomplete parameter.	Specified sampling data filter parameters are incomplete.
Process gRPC doesn't enable.	Enable grpc first.
The path doesn't exist, or it is invalid.	Invalid sampling path.

GRPC/DestinationGroups

Message	Explanation
Process gRPC doesn't enable.	Enable grpc first.
The destination-group doesn't exist.	Can't find destination-group by the destination-group name in the message.

GRPC/Subscriptions

Message	Explanation
Process gRPC doesn't enable.	Enable grpc first.
The sensor-group is subscribing, please undo subscription first.	The sensor-group is subscribing, please undo subscription first.
The sensor-group is subscribing, do not support modify sample-interval.	Can't delete sample interval in delete or remove request.

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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: <ul style="list-style-type: none">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		<ul style="list-style-type: none"> 1—Basic. 	
Type	Queue scheduling profile type	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—HSI. 1—STB. 2—VOIP 	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

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: <ul style="list-style-type: none">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.

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 byte-count	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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

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: <ul style="list-style-type: none"> 0—Advanced. 1—Basic. 	N/A
Type	Queue scheduling profile Type	N/A	Enumeration: <ul style="list-style-type: none"> 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 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
QueueID	Queue ID	Index	Unsigned integer Value range: 0 to 15.	N/A
Mode	Queue mode type	N/A	Enumeration: <ul style="list-style-type: none">1—SP.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—WRR. 3—WFQ. 	
GroupID	Group ID	N/A	Unsigned integer	Value 0 indicates the queue is in group SP.
Unit	Scheduling unit	N/A	Enumeration: <ul style="list-style-type: none"> 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 tpe	N/A	Enumeration: <ul style="list-style-type: none"> 0—HSI. 1—STB. 2—VOIP 	N/A

HardwareQueue/DefaultQueueMode

This table contains information about default capability and schedule queue mode for an interface.

XML structure

```

<HardwareQueue>
  <DefaultQueueMode>
    <Queue>
      <IfType></IfType>
      <ScheduleMode></ScheduleMode>
      <ScheduleUnit></ScheduleUnit>
      <QueueNum></QueueNum>
      <BasicMode></BasicMode>
      <MaxBandWidth1></MaxBandWidth1>
      <MaxBandWidth2></MaxBandWidth2>
      <MaxBandWidth3></MaxBandWidth3>
      <MaxBandWidth4></MaxBandWidth4>
    </Queue>
  </DefaultQueueMode>
</HardwareQueue>

```


Table description

Item	Description
Feature name	HardwareQueue
Table name	DefaultQueueMode
Table type	Multi-instance table
Row name	Queue
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfType	Interface type	index	Unsigned integer Value range: 0 to 255.	N/A
ScheduleMode	Schedule Mode	N/A	Unsigned integer	N/A
ScheduleUnit	Schedule Unit	N/A	Unsigned integer	N/A
QueueNum	Queue Number	N/A	Unsigned integer	Value is 0 when queue is sp.
BasicMode	Basic Mode	N/A	Unsigned interger	N/A
MaxBandWidth1	Gourp Max BandWidth	N/A	Unsigned interger	N/A
MaxBandWidth2	Gourp Max BandWidth	N/A	Unsigned interger	N/A
MaxBandWidth3	Gourp Max BandWidth	N/A	Unsigned interger	N/A
MaxBandWidth4	Gourp Max BandWidth	N/A	Unsigned interger	N/A

HardwareQueue/DefaultQueueParameter

This table contains information about default queue parameter for an interface.

XML structure

```
<HardwareQueue>
  <DefaultQueueParameter>
    <Queue>
      <IfType></IfType>
      <QueueID></QueueID>
      <SetMask></SetMask>
      <MinBandWidth></MinBandWidth>
```



```

    <QueueLength></QueueLength>
    <Group></Group>
    <ScheduleValue></ScheduleValue>
    <MaxBandWidth></MaxBandWidth>
    <ServiceType></ServiceType>
    <MinBandWidthPct></MinBandWidthPct>
  </Queue>
</DefaultQueueParameter>
</HardwareQueue>

```

Table description

Item	Description
Feature name	HardwareQueue
Table name	DefaultQueueParameter
Table type	Multi-instance table
Row name	Queue
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfType	Interface type	Index	Unsigned integer Value range: 0 to 255.	N/A
QueueID	Queue ID	Index	Unsigned integer	N/A
SetMask	Set Mask	N/A	Unsigned integer	N/A
MinBandWidth	Min BandWidth	N/A	Unsigned integer	N/A
QueueLength	Queue length	N/A	Unsigned integer	N/A
Group	Group	N/A	Unsigned integer	N/A
ScheduleValue	Schedule Value	N/A	Unsigned integer	N/A
MaxBandWidth	Max BandWidth	N/A	Unsigned integer	N/A
ServiceType	Service Type	N/A	Unsigned integer	N/A
MinBandWidthPct	Min BandWidth percentage	N/A	Unsigned integer	N/A

Contents

HQ1

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HQ

HQ

Message	Explanation
Please enable WFQ queuing first. 请先使能WFQ队列调度模式。	Configure or modify WFQ should enable WFQ queuing first. 配置WFQ队列或修改WFQ队列参数需要在端口队列为WFQ调度模式下使用。
This queue scheduler mode is not enabled. 队列调度模式未使能。	When delete queue scheduler mode, the interface should already configure the scheduler mode. 删除队列调度模式时需要与当前接口的队列调度模式匹配。
Queue is not supported. 不支持该队列。	Queue is not supported. 不支持该队列。
The scheduling units must be the same. 队列调度权重的单位必须相同。	The scheduling units must be the same. 队列调度权重的单位必须相同。
Failed to apply the queue management profile. The minimum bandwidth can't exceed the interface bandwidth. 应用队列调度策略失败。最小保证带宽值不能超过接口带宽值。	Failed to apply the queue management profile. The minimum bandwidth can't exceed the interface bandwidth. 应用队列调度策略失败。最小保证带宽值不能超过接口带宽值。
The number of queue management profiles has reached the upper limit. 队列调度策略数量已达上限。	When create, the number of queue management profiles has reached the upper limit. 创建队列调度策略时队列调度策略数量已达上限。
The queue management profile doesn't exist. 队列调度策略不存在。	When apply, the queue management profile doesn't exist. 应用队列调度策略时策略不存在。
Another queue management profile has been applied. 已应用另一个队列调度策略。	Another queue management profile has been applied. 应用队列调度策略时该对象已应用其他策略。
The profile doesn't support WFQ and WRR queue types at the same time. 不支持WRR+WFQ的队列组合。	The profile doesn't support WFQ and WRR queue types at the same time. 队列调度策略存在非SP队列时需要检测WRR模式和WFQ模式冲突。
A queue schedule value in this queue management profile is out of range on the interface. 队列调度权重的值超出合法范围。	A queue schedule value in this queue management profile is out of range on the interface. 队列调度权重的值超出合法范围。
Maximum bandwidth can't be smaller than the minimum bandwidth. 最大限制带宽的值不能小于最小保证带宽的值。	Maximum bandwidth can't be smaller than the minimum bandwidth. 最大限制带宽的值不能小于最小保证带宽的值。
The profile name has been used by another queue management profile. 队列调度策略名称已存在。	When create, the profile name has been used by another queue management profile. 创建队列调度策略时名称已被占用。
Type of queue management profile is incorrect. 队列调度策略的类型无效。	Type of queue management profile is incorrect. 队列调度策略的类型无效。

<p>The operation conflicts with some existing configurations.</p> <p>该操作与已经存在的配置发生冲突。</p>	<p>The operation conflicts with some existing configurations such as GTS.</p> <p>配置队列调度策略和GTS冲突。</p>
<p>Can't delete the queue scheduling profile, because it has been applied.</p> <p>该调度策略不能被删除，因为已经被应用。</p>	<p>Can't delete the queue scheduling profile, because it has been applied.</p> <p>不能删除已经被应用的调度策略。</p>

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IB

IB/IbBackup

This table contains interface backup configuration information.

XML structure

```
<IB>
  <IbBackup>
    <Backup>
      <IfIndex></IfIndex>
      <BackupIfIndex></BackupIfIndex>
      <Priority></Priority>
    </Backup>
  </IbBackup>
</IB>
```

Table description

Item	Description
Feature name	IB
Table name	IbBackup
Table type	Multi-instance table
Row name	Backup
Restrictions	<p>An interface can only be the backup of one interface.</p> <p>A primary interface cannot be configured as a backup interface at the same time.</p> <p>A main interface and its subinterfaces cannot be the backup of each other.</p> <p>The primary and backup interfaces cannot be members of a logical link. For example, they cannot be members of a Layer 3 aggregation group.</p>
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

Column name	Column description	Column type	Data type and restrictions	Remarks
				IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference. 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.
BackupIfIndex	Interface index.	Index	Unsigned integer.	
Priority	Priority of interface.	N/A	Unsigned integer Value range: 0 to 255. Default: 0.	N/A

IB/IbTrack

This table contains backup track configuration information.

XML structure

```

<IB>
  <IbTrack>
    <Track>
      <IfIndex></IfIndex>
      <TrackNum></TrackNum>
    </Track>
  </IbTrack>
</IB>

```

Table description

Item	Description
Feature name	IB
Table name	IbTrack
Table type	Multi-instance table
Row name	Track
Restrictions	<p>If you have configured the backup interface command on the primary interface, you cannot configure the backup track command on the primary or backup interface.</p> <p>If you have associated a backup interface with a track entry, you cannot configure the backup interface command on it or specify it as a backup interface by using the backup interface command.</p>

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.
TrackNum	Track entry number	N/A	Unsigned integer. Value range: 1 to 1024.	N/A

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XML structure	2
Table description	2
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IB

IB/IbBackup

This table contains interface backup configuration information.

XML structure

```
<IB>
  <IbBackup>
    <Backup>
      <IfIndex></IfIndex>
      <BackupIfIndex></BackupIfIndex>
      <Priority></Priority>
    </Backup>
  </IbBackup>
</IB>
```

Table description

Item	Description
Feature name	IB
Table name	IbBackup
Table type	Multi-instance table
Row name	Backup
Restrictions	<p>An interface can only be the backup of one interface.</p> <p>A primary interface cannot be configured as a backup interface at the same time.</p> <p>A main interface and its subinterfaces cannot be the backup of each other.</p> <p>The primary and backup interfaces cannot be members of a logical link. For example, they cannot be members of a Layer 3 aggregation group.</p>

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"

Column name	Column description	Column type	Data type and restrictions	Remarks
				in Ifmgr NETCONF XML API Configuration Reference.
BackupIfIndex	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.
Priority	Priority of interface.	N/A	Unsigned integer Value range: 0 to 255.	N/A

IB/IbTrack

This table contains backup track configuration information.

XML structure

```

<IB>
  <IbTrack>
    <Track>
      <IfIndex></IfIndex>
      <TrackNum></TrackNum>
    </Track>
  </IbTrack>
</IB>

```

Table description

Item	Description
Feature name	IB
Table name	IbTrack
Table type	Multi-instance table
Row name	Track
Restrictions	<p>If you have configured the backup interface command on the primary interface, you cannot configure the backup track command on the primary or backup interface.</p> <p>If you have associated a backup interface with a track entry, you cannot configure the backup interface command on it or specify it as a backup interface by using the backup interface command.</p>

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.
TrackNum	track entry number	N/A	Unsigned integer. Value range: 1 to 1024.	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.
Loopback	Interface loopback testing.	N/A	Enumeration:

Column name	Column description	Column type	Data type and restrictions
			<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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 of InterfaceCapabilities which in Data API.

Column name	Column description	Column type	Data type and restrictions	Remarks
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	<p>IfTypeExt is Reference in table of Ifmgr/Interfaces.which in Data API.</p> <p>The supported logic interface type as follow:</p> <ul style="list-style-type: none"> 16—IF_LOOPBACK_TYPE 41—IF_VLAN_TYPE 56—IF_BAGG_TYPE

Column name	Column description	Column type	Data type and restrictions	Remarks
				<ul style="list-style-type: none"> 67—IF_RAGG_TYPE 110—IF_RETH_TYPE 114—IF_SSLVPNAC_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>

```


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: <ul style="list-style-type: none"> • 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.	
Mismatch	Pair impedance mismatch information of an interface	N/A	Unsigned integer: <ul style="list-style-type: none"> • 0xffffffff—Not support • 0—Mismatch 	

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0xffffffff—Not support 0—Normal Others—Swap 	
PairPolarity	Pair polarity information of an interface	N/A	Unsigned integer: <ul style="list-style-type: none"> 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>
      <TrafficStatisticsEnable></TrafficStatisticsEnable>
    </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: <ul style="list-style-type: none"> 1—Up (default). 2—Down. 	N/A
ConfigSpeed	Configured speed of an interface.	N/A	Each bit represents a speed. As follows: <ul style="list-style-type: none"> 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 32768—5Gbps 65536—25Gbps 131072—32Gbps 	Examples: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Full. 2—Half. 3—Auto. 	Applicable to only Ethernet interfaces.
PortLayer	Port layer of an interface	N/A	Enumeration: <ul style="list-style-type: none"> 1—Layer 2 2—Layer 3 	Applicable to Ethernet interfaces.
LinkType	VLAN type of an interface	N/A	Enumeration: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
MAC	MAC address of an interface	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
Loopback	Loopback test	N/A	Enumeration: <ul style="list-style-type: none"> 0—No loopback 1—Internal 2—External 	Applicable to only interfaces of Ethernet and AUX.
MDI	MDI mode of an interface	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.
TrafficStatisticsEnable	Enable interface statistics collection.	N/A	Enumeration: <ul style="list-style-type: none"> enable disable 	Applicable to only Layer 3 subinterfaces.

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>
        <Flag></Flag>
    </MulticastSuppression>
    <UnknownUnicastSuppression>
        <ConfigValue></ConfigValue>
        <Unit></Unit>
    </UnknownUnicastSuppression>
    <BPDUUDrop></BPDUUDrop>
    <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: <ul style="list-style-type: none"> 1—fiber mode 2—copper mode 	
FlowControl	Flow control information of an interface	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	

Column name	Column description	Column type	Data type and restrictions	Remarks
BroadcastSuppression	Broadcast suppression information of an interface	N/A	Include: <ul style="list-style-type: none"> Value Unit 	
ConfigValue	Config broadcast suppression value of an interface	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> ratio: 0 to 100 pps: 0 to 1.4881 * the maximum interface rate. kbps: 0 to the maximum interface rate 	
Unit	Broadcast suppression unit	N/A	Enumeration: <ul style="list-style-type: none"> 1—ratio 2—pps 3—kbps 	
MulticastSuppression	Multicast suppression information of an interface	N/A	Include: <ul style="list-style-type: none"> Value Unit 	
ConfigValue	Config multicast suppression value of an interface	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> ratio: 0 to 100 pps: 0 to 1.4881 * the maximum interface rate. kbps: 0 to the maximum interface rate 	
Unit	Multicast suppression unit	N/A	Enumeration: <ul style="list-style-type: none"> 1—ratio 2—pps 3—kbps 	
Flag	Multicast suppression flag	N/A	Enumeration: <ul style="list-style-type: none"> 1—all 2--unknown 	
UnknownUnicastSuppression	UnknownUnicast suppression information of an interface	N/A	Include: <ul style="list-style-type: none"> Value Unit 	
ConfigValue	Config unknownUnicast suppression value of an interface	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> ratio: 0 to 100 pps: 0 to 1.4881 * the maximum interface rate. kbps: 0 to the maximum interface rate 	
Unit	UnknownUnicast suppression unit	N/A	Enumeration: <ul style="list-style-type: none"> 1—ratio 2—pps 3—kbps 	
BPDUDrop	Whether any type of IEEE	N/A	Boolean: <ul style="list-style-type: none"> true 	Applicable to only Layer 2 Physical

Column name	Column description	Column type	Data type and restrictions	Remarks
	BPDUs is drop on the port.		<ul style="list-style-type: none"> false 	interfaces.
EEE	Whether energy efficient ethernet is enable on the port.	N/A	Boolean: <ul style="list-style-type: none"> true false 	Applicable to only Physical interfaces.
ConnectMode	Port connection mode of an interface.	N/A	Enumeration: <ul style="list-style-type: none"> 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>

```



```

    </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.
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: <ul style="list-style-type: none"> • 0—N/A • 1—Block • 2—Shutdown 	
Trap	Event trap switch	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	
Log	Event log switch	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	
Broadcast	Broadcast storm constrain information of an interface	N/A	Include: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • pps: 1 to 1.4881 * 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: <ul style="list-style-type: none"> • pps: 1 to 1.4881 * the maximum interface rate • ratio: 1 to 100 	

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> kbps: 1 to the maximum interface rate 	
Unit	Broadcast threshold unit	N/A	Enumeration: <ul style="list-style-type: none"> 1—pps 2—ratio 3—kbps 	
Multicast	Multicast storm constrain information of an interface	N/A	Include: <ul style="list-style-type: none"> Upper Lower Unit 	The Upper value must be not less than the Lower value.
Upper	Multicast upper threshold value	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—pps 2—ratio 3—kbps 	
UnknownUnicast	Unknown-unicast storm constrain information of an interface	N/A	Include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> pps: 1 to 1.4881 * 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: <ul style="list-style-type: none"> pps: 1 to 1.4881 * the maximum interface rate ratio: 1 to 100 kbps: 1 to the maximum interface rate 	
Unit	Unknown-unicast unit	N/A	Enumeration: <ul style="list-style-type: none"> 1—pps 2—ratio 3—kbps 	
KnownUnicast	Known-unicast storm constrain	N/A	Include: <ul style="list-style-type: none"> Upper 	The Upper value must be not less

Column name	Column description	Column type	Data type and restrictions	Remarks
	information of an interface		<ul style="list-style-type: none"> Lower Unit 	than the Lower value.
Upper	Known-unicast upper threshold value	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> pps: 1 to 1.4881 * 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: <ul style="list-style-type: none"> pps: 1 to 1.4881 * the maximum interface rate ratio: 1 to 100 kbps: 1 to the maximum interface rate 	
Unit	Known-unicast unit	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">Isolation group 1 is created automatically after device started.Isolation group 1 cannot created or deleted.
Support for row creation and deletion	Yes If the maximum is not 1. <ul style="list-style-type: none">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"
IsolatedGroup ID	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>
```

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: <ul style="list-style-type: none">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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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"

Column name	Column description	Column type	Data type and restrictions	Remarks
CreateMode	The mode of creating sub channel.	Index	Enumeration: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
				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-Giga 1/2/0/1 to Ten-Giga 1/2/0/2* **interface** *GigabitEthernet 1/3/0/1 to GigabitEthernet 1/3/0/20* command and then use **Ten-Giga 1/2/0/1 to Ten-Giga 1/2/0/2** 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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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>
    <TrafficStatisticsEnable></TrafficStatisticsEnable>
  </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. Example: GigabitEthernet2/0/2	N/A
AbbreviatedName	Abbreviated name of an interface	N/A	String. Length: 2 to 47 characters. Example: GE2/0/2	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

Column name	Column description	Column type	Data type and restrictions	Remarks
				Numbers Authority (IANA), through updating the syntax of the IANA ifType textual convention.
Description	Interface description	N/A	String. Length: 1 to 255 characters.	N/A
AdminStatus	Interface administration status	N/A	Enumeration: <ul style="list-style-type: none"> 1—Administratively up. 2—Administratively down. 	N/A
OperStatus	Interface operation status	N/A	Enumeration: <ul style="list-style-type: none"> 1—up. 2—down. 3—testing. 4—unknown. 5—dormant. 6—notPresent. 7—lowerLayerDown. 	For more information, see Table 1 .
ConfigSpeed	Configured speed of an interface, in kbps	N/A	<ul style="list-style-type: none"> Each bit represents a speed As follows: <ul style="list-style-type: none"> 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 32768—5Gbps 65536—25Gbps 131072—32Gbps 	Examples: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Full. 2—Half. 3—Auto. 	Applicable to only Ethernet interfaces.
ActualDuplex	Actual duplex mode of an interface	N/A	Enumeration: <ul style="list-style-type: none"> 1—Full. 	Applicable to only Ethernet interfaces.

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> • 2—Half. • 3—Auto. 	
PortLayer	Port layer of an interface	N/A	Enumeration: <ul style="list-style-type: none"> • 1—Layer 2 • 2—Layer 3 	N/A
LinkType	VLAN type of an interface	N/A	Enumeration: <ul style="list-style-type: none"> • 1—Access. • 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.
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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 0—No loopback • 1—Internal • 2—External 	Applicable to only interfaces of Ethernet and AUX.
MDI	MDI mode of an interface	N/A	Enumeration: <ul style="list-style-type: none"> • 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	N/A	Unsigned integer. Value range: 1 to 400000000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	bandwidth of an interface			
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.
SubPort	Whether the port is sub-interface.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
TrafficStatisticsEnable	Enable interface statistics collection.	N/A	Enumeration: <ul style="list-style-type: none"> enable disable 	Applicable to only Layer 3 subinterfaces.

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	<ul style="list-style-type: none"> 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 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.

Value	Interface type	Description
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.
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.

Value	Interface type	Description
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.
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_IDSFGGE_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.

Value	Interface type	Description
88	IF_L2TGE_TYPE	Layer 2 20-GE interface.
89	IF_L3TGE_TYPE	Layer 3 20-GE interface.
90	IF_LOOPGE_TYPE	Loopback 20-GE interface.
91	IF_MIRRORGE_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.
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.

Column name	Column description	Column type	Data type and restrictions
			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: <ul style="list-style-type: none"> 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>
      <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.

Column name	Column description	Column type	Data type and restrictions
Name	Full name of an interface.	N/A	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2
AbbreviatedName	Abbreviated name of an interface.	N/A	String. Length: 2 to 47 characters. Example: GE2/0/2
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 $2^{64} - 1$.
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 $2^{64} - 1$.

Column name	Column description	Column type	Data type and restrictions
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>

```

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>
      <Bandwidth></Bandwidth>
      <MinMTU></MinMTU>
      <MaxMTU></MaxMTU>
      <MinSubNum></MinSubNum>
      <MaxSubNum></MaxSubNum>
      <MaxCreateSubNum></MaxCreateSubNum>
      <ContextAllocType></ContextAllocType>
      <Removable></Removable>
      <Interval></Interval>
      <ForceUP></ForceUP>
      <LoopbackAutoStop></LoopbackAutoStop>
      <MAC></MAC>
    </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: <ul style="list-style-type: none"> • true • false 	N/A
Shutdown	Whether the interface can be shutdown manually.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	N/A
Speed	Modes of speed which can be configured.	N/A	<ul style="list-style-type: none"> • Each bit represents a speed. • As follows: <ul style="list-style-type: none"> • 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 • 32768—5Gbps • 65536—25Gbps • 131072—32Gbps 	Example: 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: <ul style="list-style-type: none"> • 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:	Applicable to only Ethernet interfaces. Example:

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 1— Full 2—Half 4—Auto 	7—Duplex mode 'Full', 'Half' Auto 'Half' are configurable.
PortLayer	Whether the port layer can be changed.	N/A	Boolean: <ul style="list-style-type: none"> true false 	Applicable to only Ethernet interfaces.
Loopback	Whether the loopback test can be configured.	N/A	Boolean: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false 	N/A
MinMTU	The minimum MTU which can be configured.	N/A	Unsigned integer.	Applicable to only Layer 3 interfaces.
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false 	N/A
Interval	Whether the	N/A	Boolean:	

Column name	Column description	Column type	Data type and restrictions	Remarks
	sampling interval can be configured.		<ul style="list-style-type: none"> true false 	
ForceUP	Whether port force up can be configured.	N/A	Boolean: <ul style="list-style-type: none"> true false 	Applicable to only Ethernet and POS interfaces.
LoopbackAutoStop	Whether the loopback detection can be auto stop.	N/A	Boolean: <ul style="list-style-type: none"> true false 	
MAC	Whether MAC can be configured.	N/A	Boolean: <ul style="list-style-type: none"> 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.
MAC	Check whether a MAC address can be configured.	N/A	Boolean: <ul style="list-style-type: none"> 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>
        <Flag></Flag>
    </MulticastSuppression>
    <UnknownUnicastSuppression>
        <ConfigValue></ConfigValue>
        <ActualValue></ActualValue>
        <Unit></Unit>
    </UnknownUnicastSuppression>
    <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.

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: <ul style="list-style-type: none"> 1—fiber mode 2—copper mode 	Applicable to only Ethernet interfaces.

Column name	Column description	Column type	Data type and restrictions	Remarks
FlowControl	Flow control information of an interface	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 disabled on an interface.	
BroadcastSuppression	Broadcast suppression information of an interface	N/A	Include: <ul style="list-style-type: none"> Value Unit 	
ConfigValue	Configured broadcast suppression value of an interface	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> ratio: 0 to 100 pps: 0 to 1.4881 * the maximum interface rate. kbps: 0 to the maximum interface rate 	
ActualValue	Actual broadcast suppression value of an interface	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> ratio: 0 to 100 pps: 0 to 1.4881 * the maximum interface rate. kbps: 0 to the maximum interface rate 	
Unit	Broadcast suppression unit	N/A	Enumeration: <ul style="list-style-type: none"> 1—ratio 2—pps 3—kbps 	
MulticastSuppression	Multicast suppression information of an interface	N/A	Include: <ul style="list-style-type: none"> Value Unit 	
ConfigValue	Configured multicast suppression value of an interface	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> ratio: 0 to 100 pps: 0 to 1.4881 * 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: <ul style="list-style-type: none"> ratio: 0 to 100 pps: 0 to 1.4881 * the maximum interface rate. kbps: 0 to the maximum interface rate 	

Column name	Column description	Column type	Data type and restrictions	Remarks
Unit	Multicast suppression unit	N/A	Enumeration: <ul style="list-style-type: none"> • 1—ratio • 2—pps • 3—kbps 	
Flag	Multicast suppression flag	N/A	Enumeration: <ul style="list-style-type: none"> • 1—all • 2—unknown 	
UnknownUnicastSuppression	UnknownUnicast suppression information of an interface	N/A	Include: <ul style="list-style-type: none"> • Value • Unit 	
ConfigValue	Configured unknownUnicast suppression value of an interface	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> • ratio: 0 to 100 • pps: 0 to 1.4881 * 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: <ul style="list-style-type: none"> • ratio: 0 to 100 • pps: 0 to 1.4881 * the maximum interface rate. • kbps: 0 to the maximum interface rate 	
Unit	UnknownUnicast suppression unit	N/A	Enumeration: <ul style="list-style-type: none"> • 1—ratio • 2—pps • 3—kbps 	
BPDUDrop	Whether any type of IEEE BPDUs is drop on the port.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	Applicable to only Layer 2 Physical interfaces.
EEE	Whether energy efficient ethernet is enable on the port.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	Applicable to only Physical interfaces.
ConnectMode	Port connection mode of an interface.	N/A	Enumeration: <ul style="list-style-type: none"> • 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	N/A	Boolean:	

Column name	Column description	Column type	Data type and restrictions	Remarks
	mode can be activated.		<ul style="list-style-type: none"> true false 	
StormConstrain	Whether storm constrain can be configured.	N/A	Boolean: <ul style="list-style-type: none"> true false 	Applicable to only L2 Ethernet interfaces.
FlowControl	Whether flow control can be configured.	N/A	Boolean: <ul style="list-style-type: none"> true false 	Applicable to only physical interfaces.
AutoPowerDown	Whether auto power down can be configured.	N/A	Boolean: <ul style="list-style-type: none"> 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 bpdudrop can be configured.	N/A	Boolean: <ul style="list-style-type: none"> true false 	Applicable to only Layer 2 Physical interfaces.
EEE	Whether energy efficient ethernet can be configured.	N/A	Boolean: <ul style="list-style-type: none"> true false 	Applicable to only Physical interfaces.
ConnectMode	Whether port connection mode can be configured.	N/A	Boolean: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> • 0—N/A • 1—Block • 2—Shutdown 	
Trap	Event trap switch	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	
Log	Event log switch	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	
Broadcast	Broadcast storm constrain information of an interface	N/A	Include: <ul style="list-style-type: none"> • Upper • Lower • Unit • Forward • SwitchNum 	
Upper	Broadcast upper threshold value	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> • pps: 1 to 1.4881 * 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 1—pps • 2—ratio • 3—kbps 	
Forward	Broadcast traffic forwarding status	N/A	Enumeration: <ul style="list-style-type: none"> • 0—Forwarding • 1—Block • 2—Shutdown 	
SwitchNum	Number of	N/A	Unsigned integer.	

Column name	Column description	Column type	Data type and restrictions	Remarks
	broadcast traffic forwarding state changes			
Multicast	Multicast storm constrain information of an interface	N/A	Include: <ul style="list-style-type: none"> Upper Lower Unit Forward SwitchNum 	
Upper	Multicast upper threshold value	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—pps 2—ratio 3—kbps 	
Forward	Multicast traffic forwarding status	N/A	Enumeration: <ul style="list-style-type: none"> 0—Forwarding 1—Block 2—Shutdown 	
SwitchNum	Number of multicast traffic forwarding state changes	N/A	Unsigned integer.	
UnknownUnicast	Unknown-unicast storm constrain information of an interface	N/A	Include: <ul style="list-style-type: none"> Upper Lower Unit Forward SwitchNum 	
Upper	Unknown-unicast upper threshold value	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> pps: 1 to 1.4881 * 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: <ul style="list-style-type: none"> pps: 1 to 1.4881 * the maximum interface rate ratio: 1 to 100 	

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> • kbps: 1 to the maximum interface rate 	
Unit	Unknown-unicast unit	N/A	Enumeration: <ul style="list-style-type: none"> • 1—pps • 2—ratio • 3—kbps 	
Forward	Unknown-unicast traffic forwarding status	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • Upper • Lower • Unit • Forward • SwitchNum 	
Upper	Known-unicast upper threshold value	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> • pps: 1 to 1.4881 * 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: <ul style="list-style-type: none"> • pps: 1 to 1.4881 * the maximum interface rate • ratio: 1 to 100 • kbps: 1 to the maximum interface rate 	
Unit	Known-unicast unit	N/A	Enumeration: <ul style="list-style-type: none"> • 1—pps • 2—ratio • 3—kbps 	
Forward	Known-unicast traffic forwarding status	N/A	Enumeration: <ul style="list-style-type: none"> • 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 on all interfaces, 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>
        <InterfaceList></InterfaceList>
      </Group>
    </Groups>
  </PortIsolation>
</Ifmgr>
```



```

    </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	<p>Number string.</p> <p>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.</p> <p>The string must not end with a comma or hyphen, or include any whitespace characters.</p>	<p>Examples: 1,2,3,5-8,10-20</p> <p>Example: 1,2,3,5-8,10-20.</p> <p>Available IfIndexes are in the IfIndex column in the Ifmgr/Interfaces table.</p>

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: <ul style="list-style-type: none">truefalse	

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: <ul style="list-style-type: none">1—Global.2—Local	The reservation of global VLAN interface resources or local VLAN interface resources.
VlanList	List of VLANs for the reservation of	N/A	Number string. It is a comma-separated list of	Example: 1,2,3,5-8,10-20

Column name	Column description	Column type	Data type and restrictions	Remarks
	VLAN interface resources.		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.	

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

Column name	Column description	Column type	Data type and restrictions	Remarks
				IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
CreateMode	The mode of creating sub channel.	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.

Ifmgr/EthPortStatistics

This table contains interface statistics.

XML structure

```

<Ifmgr>
  <EthPortStatistics >
    <Interface>
      <IfIndex></IfIndex>
      <Name></Name>
      <InBytes/>
      <InPkts/>
      <InUcastPkts/>
      <InBrdcastPkts/>
      <InMulticastPkts/>
      <InPauses/>
      <InNormalBytes/>
      <InNormalUnicastBytes/>
      <InNormalBrdcastBytes/>
      <InNormalMulticastBytes/>
      <InUnknownUnicastBytes/>
      <InNormalPkts/>
    </Interface>
  </EthPortStatistics >
</Ifmgr>

```



```

<InNormalUnicastPkts/>
<InNormalBrdcastPkts/>
<InNormalMulticastPkts/>
<InUnknownUnicastPkts/>
<InNormalPauses/>
<InErrorPkts/>
<InPktSpeed/>
<InByteSpeed/>
<InBrdcastPktSpeed/>
<InMulticastPktSpeed/>
<InRunts/>
<InGiants/>
<InThrottles/>
<InErrCRCFrames/>
<InErrFrames/>
<InOverrunDropPkts/>
<InAbortPkts/>
<InIgnoreDropFrames/>
<InParityErrFrames/>
<InSpeedPeakBytes>
<InSpeedPeakTime/>
<OutBytes/>
<OutPkts/>
<OutUcastPkts/>
<OutBrdcastPkts/>
<OutMulticastPkts/>
<OutPauses/>
<OutNormalBytes/>
<OutNormalUnicastBytes/>
<OutNormalBrdcastBytes >
<OutNormalMulticastBytes/>
<OutUnknownUnicastBytes/>
<OutNormalPkts/>
<OutNormalUnicastPkts/>
<OutNormalBrdcastPkts/>
<OutNormalMulticastPkts/>
<OutUnknownUnicastPkts/>
<OutNormalPauses/>
<OutErrorPkts/>
<OutPktSpeed/>
<OutByteSpeed/>
<OutBrdcastPktSpeed/>
<OutMulticastPktSpeed/>
<OutUnderRunDropPkts/>
<OutBuffFailDropPkts/>
<OutAbortPkts/>
<OutDeferedFrames/>
<OutCollisionFrames/>

```



```

    <OutLateCollisionFrames/>
    <OutLostCarriers/>
    <OutNoCarriers/>
    <OutSpeedPeakBytes/>
    <OutSpeedPeakTime/>
  </Interface>
</EthPortStatistics>
</Ifmgr>

```

Table description

Item	Description
Feature name	Ifmgr
Table name	EthPortStatistics
Table type	Multi-instance table
Row name	Interface
Restrictions	N/A

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.
InBytes	Number of inbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InPkts	Number of inbound packets 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 $2^{64} - 1$.
InBrdcastPkts	Number of inbound broadcast packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InMulticastPkts	Number of inbound multicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InPauses	Number of inbound pause frames on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InNormalBytes	Number of inbound normal bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InNormalUnicastBytes	Number of inbound normal unicast bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.

Column name	Column description	Column type	Data type and restrictions
InNormalBrdcastBytes	Number of inbound normal broadcast bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InNormalMulticastBytes	Number of inbound normal multicast bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InUnknownUnicastBytes	Number of inbound unknown unicast bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InNormalPkts	Number of inbound normal packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InNormalUnicastPkts	Number of inbound normal unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InNormalBrdcastPkts	Number of inbound normal broadcast packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InNormalMulticastPkts	Number of inbound normal multicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InUnknownUnicastPkts	Number of inbound unknown unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InNormalPauses	The number of normal pauses received on the interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InErrorPkts	Number of error inbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InPktSpeed	Rate of inbound packages on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InByteSpeed	Rate of inbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InBrdcastPktSpeed	Rate of inbound broadcast packages on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InMulticastPktSpeed	Rate of inbound multicast packages on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InRunts	Number of inbound runs on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InGiants	Number of inbound giants on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InThrottles	Number of inbound frames that had a non-integer number of bytes.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InErrCRCFrames	Total number of inbound frames that had a normal length, but contained CRC errors.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.

Column name	Column description	Column type	Data type and restrictions
InErrFrames	Total number of inbound frames that contained CRC errors and a non-integer number of bytes.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InOverrunDropPkts	Number of packets dropped because the input rate of the port exceeded the queuing capability.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InAbortPkts	Total number of illegal inbound packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InIgnoreDropFrames	Number of inbound frames dropped because the receiving buffer of the port ran low.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InParityErrFrames	Total number of frames with parity errors.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InSpeedPeakBytes	Peak rate of inbound traffic in Bps, and the time when the peak inbound traffic rate occurred.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
InSpeedPeakTime	Speed peak time of inbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutBytes	Number of outbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutPkts	Number of outbound packages 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 $2^{64} - 1$.
OutBrdcastPkts	Number of outbound broadcast packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutMulticastPkts	Number of outbound multicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutPauses	Number of outbound pause frames on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutNormalBytes	Number of outbound normal bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutNormalUnicastBytes	Number of outbound normal unicast bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutNormalBrdcastBytes	Number of outbound normal broadcast bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutNormalMulticastBytes	Number of outbound normal multicast bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.

Column name	Column description	Column type	Data type and restrictions
OutUnknownUnicastBytes	Number of outbound unknown unicast bytes on an interface. unsupported protocol.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutNormalPkts	Number of outbound normal packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutNormalUnicastPkts	Number of outbound normal unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutNormalBrdcastPkts	Number of outbound normal broadcast packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutNormalMulticastPkts	Number of outbound normal multicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutUnknownUnicastPkts	Number of outbound unknown unicast packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutNormalPauses	Number of outbound normal pause frames on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutErrorPkts	Number of error outbound packets on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutPktSpeed	Rate of outbound packages on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutByteSpeed	Rate of outbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutBrdcastPktSpeed	Rate of outbound broadcast packages on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutMulticastPktSpeed	Rate of outbound multicast packages on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutUnderRunDropPkts	Number of packets dropped because the output rate of the interface exceeded the output queuing capability.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutBuffFailDropPkts	Number of packets dropped because the transmitting buffer of the interface ran low.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutAbortPkts	Number of packets that failed to be transmitted, for example, because of Ethernet collisions.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutDeferredFrames	Number of frames that the interface deferred to transmit because of detected collisions.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutCollisionFrames	Number of frames that the interface stopped	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.

Column name	Column description	Column type	Data type and restrictions
	transmitting because Ethernet collisions were detected during transmission.		
OutLateCollisionFrames	Number of frames that the interface deferred to transmit after transmitting their first 512 bits because of detected collisions.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutLostCarriers	Number of carrier losses during transmission.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutNoCarriers	Number of times that the port failed to detect the carrier when attempting to send frames.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutSpeedPeakBytes	Peak rate of outbound traffic in Bps, and the time when the peak outbound traffic rate occurred.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.
OutSpeedPeakTime	Speed peak time of outbound bytes on an interface.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.

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Ifmgr

Ifmgr/Interfaces

Message	Explanation
The administrative state of management interface cannot be modified.	
Please set the link type of the port to access first.	During merging operation for LinkType of interfaces table, set the link type of the port to access first.
The VLAN doesn't support the operation.	During executing set operation for LinkType of interfaces table, the VLAN doesn't support the operation.
Cannot change the link type of %s because this operation conflicts with the %s configuration.	During executing set operation for LinkType of interfaces table, this operation cannot change the link type for the port because this operation conflicts with the port's configuration.
The VLAN does not exist.	During executing set operation for PVID of interfaces table, the VLAN doesn't exist.
This is not a hybrid port.	During executing set operation for PVID of interfaces table, the link type of the port is not hybrid.
This is not a trunk port.	During executing set operation for PVID of interfaces table, the link type of the port is not trunk.
The specified duplex mode is not supported.	During executing set operation for cfgduplex of interfaces table, the specified duplex mode is not supported.
Duplex mode cannot be configured when loopback external or loopback internal command is configured.	During executing set operation for cfgduplex of interfaces table, the duplex mode cannot be configured when the loopback external or loopback internal command is configured.
You do not have the privilege to access %s.	
The interface doesn't support the operation.	During executing set operation for cfgduplex of interfaces table, the interface doesn't support the operation.
Configuration cannot be configured when loopback external or loopback internal command is configured.	During executing set operation for interfaces table, the configuration cannot be modified when the loopback external or loopback internal command is configured.
Invalid speed value for port auto-negotiation.	During executing set operation for ConfigSpeed of interfaces table, the speed value for port auto-negotiation is invalid.
The MTU range is %u to %u.	During executing set operation for ConfigMTU of interfaces table, the MTU should be in the valid range.

The %s interface number range is %u to %u.	During executing set operation for IfIndex of interfaces table, the interface number should be in the valid range.
Column SubNum cannot be included when you remove the interface.	During executing remove operation, the SubNum column cannot be included.
Allocated VLANs can not be set as port PVID.	During executing set operation for PVID of interfaces, allocated VLANs can not be set as a PVID.
The operation is not permitted because this port is shared with other contexts.	During executing set operation for LinkType of interfaces table, it is not permitted because this port is shared with other contexts.
Can't shut down the last active physical interface on a PEX for PEX links. Please shut down the PEX physical interface on the parent device that provides PEX connectivity for the PEX.	During executing set operation for ShutDown of interfaces table, it can't shut down the last active physical interface on a PEX for PEX links. Please shut down the PEX physical interface on the parent device that provides PEX connectivity for the PEX.
Operation not supported on the last active physical port bound to IRF port which connected to the master! Please shutdown the other end of the link.	During executing set operation for ShutDown of interfaces table, the operation is not supported on the last active physical port bound to the IRF port which connects to the master! Please shut down the other end of the link.
Can not be configured with loopback external/internal command together.	During executing set operation for ShutDown of interfaces table, it can not be configured with the loopback external/internal command together.
Can not be configured with port up-mode command together.	During executing set operation for ShutDown of interfaces table, it can not be configured with the port up-mode command together.
Bind all interfaces in the same group to IRF ports or cancel the bindings on all of them.	During executing set operation for ShutDown of interfaces table, all interfaces in the same group should be bound to IRF ports or the bindings on all of them should be cancelled.
Bind all interfaces in the same group to PEX ports or cancel the bindings on all of them.	During executing set operation for ShutDown of interfaces table, all interfaces in the same group should be bound to PEX ports or the bindings on all of them should be cancelled.
Bind all interfaces in the same group to IRF/PEX ports or cancel the bindings on all of them.	During executing set operation for ShutDown of interfaces table, all interfaces in the same group should be bound to IRF/PEX ports or the bindings on all of them should be cancelled.
The shutdown, port up-mode and loopback commands are exclusive with each other.	During executing merge operation for interfaces table, the shutdown, port up-mode and loopback commands are exclusive with each other.
LOOPBACK can not be specified when port is administratively down.	when the port is administratively down, LOOPBACK can not be specified.

Port up-mode can not be specified when port is administratively down.	when the port is administratively down, port up-mode can not be specified.
The specified group doesn't exist.	During executing get operation for interfaces table, the specified group doesn't exist.
The arguments are incompletely configured.	During executing set operation for interfaces table, the arguments are incompletely configured.
The interface has been allocated and can't change the link mode.	Due to the interface has been allocated, it can't change the link mode.
The value is out of the effective range.	During executing get operation for interfaces table, the value is out of the effective range.
The value must be a multiple of 5.	During executing set operation for interfaces table, the value must be a multiple of 5.
Invalid interface name.	During executing check operation for interfaces name, the interface name is invalid.
Insufficient system resources.	During adding or parsing operation, system resources are insufficient.
%s is not a valid interface name.	During executing set operation for interfaces name, the interface name is invalid.
The operation failed because the port is a member port of a Layer 2 aggregation group.	During executing merge operation for Ethinterfaces table, the operation failed because the port is a member port of a Layer 2 aggregation group.
The operation failed because the port is joining or leaving a Layer 2 aggregation group.	During executing merge operation for Ethinterfaces table, the operation failed because the port is joining or leaving a Layer 2 aggregation group.

Ifmgr/NewSubInterfaces

Message	Explanation
The %s subinterface number range is %u to %u.	During executing get operation for SubNum of new subinterfaces table, the subinterface number should be in the valid range.
Can not configure this parameter in async flow mode.	When the interface in async flow mode, can not configure this parameter.
Can not delete this interface.	During executing undo operation for new subinterfaces ,it can not be deleted.
Failed to delete %s, for %s has member ports.	During executing undo operation for new subinterfaces, it will fail to be deleted because it has member ports.
The virtual-template is being used and can't be deleted.	During executing undo operation for new subinterfaces, the virtual-template can't be deleted

	because it is being used.
The interface in use cannot be deleted.	During executing undo operation for new subinterfaces, the interface in use cannot be deleted.
The interface cannot be created because the system is busy.	During executing Create operation for new subinterfaces, it will fail to be created because the system is busy.
The start interface and the end interface must be of the same type.	During executing set operation for sub channel interface name, the start interface and the end interface must be of the same type.
The start interface and the end interface must reside on the same card.	During executing set operation for sub channel interface name, the start interface and the end interface must reside on the same card.
The interfaces beside 'to' must be two subinterfaces or two sub tunnel.	During executing set operation for sub channel interface name, the interfaces beside 'to' must be two subinterfaces or two sub tunnels.
The start sub interface and the end sub interface must be on the same interface.	During executing set operation for sub interface, the start sub interface and the end sub interface must be on the same interface.
The end interface number must be greater than the start interface number.	During executing set operation for sub interface, the end interface number must be greater than the start interface number.
Can't create the sub interface because the main interface is in an aggregation group.	During executing create operation for sub interface, it can't create the sub interface because the main interface is in an aggregation group.
The interface already exists.	During executing create operation for sub interface , the interface already exists.
The interface is not a sub interface.	During executing create operation for sub interface , the interface is not a sub interface.
The resource has been used. 资源已经在使用中。	-
The system does not support Reserve Vlan Interface. 系统不支持Reserve Vlan Interface。	-
Can not create this interface.	During executing create operation for sub interface, this interface can not be created.

Ifmgr/EthInterfaces

Message	Explanation
The link aggregation group doesn't exist.	During executing merge operation for Ethinterfaces table, The link aggregation group doesn't exist. .
%s has been assigned to another aggregation group.	During executing merge operation for Ethinterfaces table, the interfaces has been assigned to another aggregation group.
Can't assign %s to a link aggregation group because the interface has subinterfaces.	During executing merge operation for Ethinterfaces table,can't assign it to a link aggregation group because the interface has subinterfaces.
Can't assign the L2VPN-enabled interface %s to a link aggregation group.	During executing merge operation for Ethinterfaces table, can't assign the L2VPN-enabled interface to a link aggregation group.
Can't assign %s to a link aggregation group because the interface is enabled with port security, MAC authentication, or 802.1X authentication.	During executing merge operation for Ethinterfaces table, can't assign it to a link aggregation group because the interface is enabled with port security, MAC authentication, or 802.1X authentication.
Failed to create the link aggregation group.	During executing merge operation for Ethinterfaces table, failed to create the link aggregation group.
Can't assign the sub interface %s to a link aggregation group.	During executing merge operation for Ethinterfaces table, can't assign the sub interface to a link aggregation group.
Failed to set the hash key mode, because the mode is not supported.	During executing merge operation for Ethinterfaces table, failed to set the hash key mode, because the mode is not supported.
The load-sharing mode of flexible can not be configured with others.	During executing merge operation for Ethinterfaces table, the load-sharing mode of flexible can not be configured with others.
The load-sharing mode of per-packet can not be configured with others.	During executing merge operation for Ethinterfaces table, the load-sharing mode of per-packet can not be configured with others.
Can't assign %s to a link aggregation group because the interface is shared by multiple contexts.	During executing merge operation for Ethinterfaces table, can't assign it to a link aggregation group because the interface is shared by multiple contexts.
Can't assign the port to the aggregation group because its attribute configurations are different than the aggregate interface.	During executing merge operation for Ethinterfaces table, can't assign the port to the aggregation group because its attribute configurations are different than the aggregate interface.

Please set the manual recovery mode for PFC deadlock detection first.	During executing merge operation for Ifrecover table, please set the manual recovery mode for PFC deadlock detection first.
Please specify the indexes and associated contents for the element 'LAGGMembers'.	During executing merge operation for Ethinterfaces table, please specify the indexes and associated contents for the element 'LAGGMembe.

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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>
<IfIndex></IfIndex>
<Adminstatus></Adminstatus>
<Operstatus></Operstatus>
<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>
      <IfIndex></IfIndex>
      <Description>The Interface GigabitEthernet2/0/1 occurred IF_ACTIVE event,the
        administration status is Admin Up, operation status is
        OPER_UP.</Description>
      <Adminstatus >ADMIN_UP</Adminstatus>
      <Operstatus>OPER_UP</Operstatus>
    </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: <ul style="list-style-type: none"> IF_ACTIVE IF_DEACTIVE IF_PHY_UP IF_PHY_DOWN IF_LINK_UP IF_LINK_DOWN 	No
Description	Ifmgr event description	String. Size: 1 to 255	No
IfIndex	Interface index	Unsigned integer.	No
AdminStatus	Administration status of an interface	Unsigned integer. <ul style="list-style-type: none"> ADMIN_UP. ADMIN_DOWN. 	No
OperStatus	Operation status of an interface	Unsigned short. <ul style="list-style-type: none"> OPER_UP. OPER_DOWN. OPER_TESTING. 	No

Column name	Column description	Data type and restrictions	Support for extended queries
		<ul style="list-style-type: none"> • OPER_UNKNOWN. • OPER_DORMANT. • OPER_NOTPERSENT. • OPER_LOWERLAYERDOWN. 	

Bandwidth event

This event is used to report bandwidth change information.

XML structure for event subscription

```
<InterfaceBandWidthEvent>
  <InterfaceBandWidth>
    <Name></Name>
  </InterfaceBandWidth>
</InterfaceBandWidthEvent>
```

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">
      <InterfaceBandWidthEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0">
        <InterfaceBandWidth>
          <Name>Serial2/0/1</Name>
        </InterfaceBandWidth>
      </InterfaceBandWidthEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Ifmgr
Event name	BandwidthEvent
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

```
<InterfaceBandWidthEvent>
  <InterfaceBandWidth>
    <IfIndex></IfIndex>
    <Name></Name>
    <CfgBandWidth></CfgBandWidth>
    <Description></Description>
  </InterfaceBandWidth>
</InterfaceBandWidthEvent>
```

Example 1:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <InterfaceBandWidthEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0">
    <InterfaceBandWidth>
      <IfIndex>274</IfIndex>
      <Name>GigabitEthernet2/0/1</Name>
      <CfgBandWidth>100000</CfgBandWidth>
      <Description> The interface GigabitEthernet2/2/7/2 's configured bandwidth is
        100000.</Description>
    </InterfaceBandWidth>
  </InterfaceBandWidthEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfIndex	Interface index	Unsigned integer.	No
Name	Interface name	String. Size: 1 to 47	No
BandWidth	Effective bandwidth value	Unsigned integer.	No
CfgBandWidth	Configured bandwidth value	Unsigned integer.	No
Description	Ifmgr event description	String. Size: 1 to 255	No

Speed event

This event is used to report baud-rate or speed-rate change information.

XML structure for event subscription

```
<InterfaceSpeedEvent>
  <InterfaceSpeed>
    <Name></Name>
  </InterfaceSpeed>
</InterfaceSpeedEvent>
```

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">
      <InterfaceSpeedEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0">
        <InterfaceSpeed>
          <Name>Serial2/0/1</Name>
        </InterfaceSpeed>
      </InterfaceSpeedEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	Ifmgr
Event name	SpeedEvent
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

```
<InterfaceSpeedEvent>
  <InterfaceSpeed>
    <Name></Name>
    <BandWidth></BandWidth>
    <Description></Description>
  </InterfaceSpeed>
</InterfaceSpeedEvent>
```

Example 1:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
```



```

<eventTime>2016-07-21T09:10:51</eventTime>
<InterfaceSpeedEvent xmlns="http://www.h3c.com/netconf/event:1.0/Ifmgr:1.0">
  <InterfaceSpeed>
    <IfIndex>274</IfIndex>
    <Name>GigabitEthernet2/0/1</Name>
    <Bandwidth>5000</Bandwidth>
    <Description>The effective-bandwidth(baud-rate) of GigabitEthernet2/0/1 is
      50000.</Description>
  </InterfaceSpeed>
</InterfaceSpeedEvent>
</notification>

```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
IfIndex	Interface index	Unsigned integer.	No
Name	Interface name	String. Size: 1 to 47	No
EffecBandwidth	Effective bandwidth value	Unsigned integer.	No
Description	Ifmgr event description	String. Size: 1 to 255	No

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Ifmon

Ifmon/IfMonThresholdInterfaces

This table contains interface monitor threshold information.

XML structure

```
<Ifmon>
  <IfMonThresholdInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <InputUsage>
        <HighThres></HighThres>
        <LowThres></LowThres>
      </InputUsage>
      <OutputUsage>
        <HighThres></HighThres>
        <LowThres></LowThres>
      </OutputUsage>
      <InputErrorAlarm>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </InputErrorAlarm>
      <OutputErrorAlarm>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </OutputErrorAlarm>
      <SdhError>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </SdhError>
      <SdhB1Error>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </SdhB1Error>
      <SdhB2Error>
        <HighThres></HighThres>
```



```

        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
    </SdhB2Error>
    <CRCErr>
        <Type></Type>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
    </CRCErr>
    <RxPauseFrame>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
    </RxPauseFrame>
    <TxPauseFrame>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
    </TxPauseFrame>
</Interface>
</IfMonThresholdInterfaces>
</Ifmon>

```

Table description

Item	Description
Feature name	Ifmon
Table name	IfMonThresholdInterfaces
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.	For information about the string type, see "Appendix"
InputUsage	Threshold for the inbound	N/A	Include: <ul style="list-style-type: none"> HighThres 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	bandwidth usage		<ul style="list-style-type: none"> LowThres 	
HighThres	Upper threshold for the inbound bandwidth usage	N/A	Unsigned integer. Value range: 1 to 100.	N/A
LowThres	Lower threshold for the inbound bandwidth usage	N/A	Unsigned integer. Value range: 1 to 100.	N/A
OutputUsage	Threshold for the outbound bandwidth usage	N/A	Include: <ul style="list-style-type: none"> HighThres LowThres 	N/A
HighThres	Upper threshold for the outbound bandwidth usage	N/A	Unsigned integer. Value range: 1 to 100.	N/A
LowThres	Lower threshold for the outbound bandwidth usage	N/A	Unsigned integer. Value range: 1 to 100.	N/A
InputErrorAlarm	Threshold for the number of inbound error packets	N/A	Include: <ul style="list-style-type: none"> HighThres LowThres Interval EnableShutdown 	N/A
HighThres	Upper threshold for the number of inbound error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of inbound error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of inbound error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the inbound bandwidth exceeds the upper threshold, the physical interface goes down	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
OutputErrorAlarm	Threshold for the number of outbound error packets.	N/A	Include: <ul style="list-style-type: none"> HighThres LowThres Interval EnableShutdown 	N/A
HighThres	Upper threshold for the number of outbound error packets.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LowThres	Lower threshold for the number of outbound error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of outbound error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of outbound error packets exceeds the upper threshold, the physical interface goes down	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
SdhError	Threshold for the number of SDH error packets.	N/A	Include: <ul style="list-style-type: none"> HighThres LowThres Interval EnableShutdown 	N/A
HighThres	Upper threshold for the number of SDH error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of SDH error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of SDH error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of SDH error packets exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
SdhB1Error	Threshold for the number of SDH B1 error packets.	N/A	Include: <ul style="list-style-type: none"> HighThres LowThres Interval EnableShutdown 	N/A
HighThres	Upper threshold for the number of SDH B1 error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	SDH B1 error packets.			
Interval	Inspection interval for the number of SDH B1 error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of SDH B1 error packets exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
SdhB2Error	Threshold for the number of SDH B2 error packets	N/A	Include: <ul style="list-style-type: none"> HighThres LowThres Interval EnableShutdown 	N/A
HighThres	Upper threshold for the number of SDH B2 error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of SDH B2 error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of SDH B2 error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of SDH B2 error packets exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
CRCErrorThres	Threshold for the CRC error packets.	N/A	Include: <ul style="list-style-type: none"> Type HighThres LowThres Interval EnableShutdown 	N/A
Type	Inspection type for the CRC error packets	N/A	Enumeration: <ul style="list-style-type: none"> 1—absolute 2—ratio 	N/A
HighThres	Upper threshold for the CRC error packets.	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> absolute: 1–4294967295 ratio: 1 to 100 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LowThres	Low threshold for the CRC error packets.	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> absolute: 1–4294967295 ratio: 1 to 100 	N/A
Interval	Inspection interval for the CRC error packets	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of CRC error packets exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
RxPauseFrame	Threshold for the number of received pause frames.	N/A	Include: <ul style="list-style-type: none"> HighThres LowThres Interval 	N/A
HighThres	Upper threshold for the number of received pause frames.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of received pause frames.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of received pause frames.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
TxPauseFrame	Threshold for the number of transmitted pause frames.	N/A	Include: <ul style="list-style-type: none"> HighThres LowThres Interval 	N/A
HighThres	Upper threshold for the number of transmitted pause frames.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of transmitted pause frames.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of transmitted pause frames.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

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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Ifmon

Ifmon/IfMonStatisticsInterfaces

This table contains basic interface monitor statistics information.

XML structure

```
<Ifmon>
  <IfMonStatisticsInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <InputUsageStatistics></InputUsageStatistics>
      <OutputUsageStatistics></OutputUsageStatistics>
      <InputErrorAlarmStatistics></InputErrorAlarmStatistics>
      <OutputErrorAlarmStatistics></OutputErrorAlarmStatistics>
      <SdhErrorStatistics></SdhErrorStatistics>
      <SdhB1ErrorStatistics></SdhB1ErrorStatistics>
      <SdhB2ErrorStatistics></SdhB2ErrorStatistics>
      <CRCErrorsStatistics></CRCErrorsStatistics>
      <RxPauseFrameStatistics></RxPauseFrameStatistics>
      <TxPauseFrameStatistics></TxPauseFrameStatistics>
    </Interface>
  </IfMonStatisticsInterfaces>
</Ifmon>
```

Table description

Item	Description
Feature name	ifmon
Table name	IfMonStatisticsInterfaces
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

Column name	Column description	Column type	Data type and restrictions	Remarks
				information about IfIndex, see "Appendix" in Ifmon NETCONF XML API Configuration Reference.
InputUsageStatistics	Statistics about the inbound bandwidth usage.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
OutputUsageStatistics	Statistics about the outbound bandwidth usage.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
InputErrorAlarmStatistics	Statistics about the number of inbound error packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
OutputErrorAlarmStatistics	Statistics about the number of outbound error packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
SdhErrorStatistics	Statistics about the number of SDH error packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
SdhB1ErrorStatistics	Statistics about the number of SDH B1 error packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
SdhB2ErrorStatistics	Statistics about the number of SDH B2 error packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
CRCErrorStatistics	Statistics about the number of CRC error packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RxPauseFrameStatistics	Statistics about the number of received pause frames.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
TxPauseFrameStatistics	Statistics about the number of transmitted pause frames	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

Ifmon/IfMonThresholdInterfaces

This table contains interface monitor threshold information.

XML structure

```
<Ifmon>
  <IfMonThresholdInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <InputUsage>
        <HighThres></HighThres>
        <LowThres></LowThres>
      </InputUsage>
      <OutputUsage>
        <HighThres></HighThres>
        <LowThres></LowThres>
      </OutputUsage>
      <InputErrorAlarm>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </InputErrorAlarm>
      <OutputErrorAlarm>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </OutputErrorAlarm>
      <SdhError>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </SdhError>
      <SdhB1Error>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </SdhB1Error>
      <SdhB2Error>
        <HighThres></HighThres>
        <LowThres></LowThres>
        <Interval></Interval>
        <EnableShutdown></EnableShutdown>
      </SdhB2Error>
      <CRCErrors>
        <Type></Type>
        <HighThres></HighThres>
        <LowThres></LowThres>
```



```

    <Interval></Interval>
    <EnableShutdown></EnableShutdown>
  </CRCErrors>
  <RxPauseFrame>
    <HighThres></HighThres>
    <LowThres></LowThres>
    <Interval></Interval>
  </RxPauseFrame>
  <TxPauseFrame>
    <HighThres></HighThres>
    <LowThres></LowThres>
    <Interval></Interval>
  </TxPauseFrame>
</Interface>
</IfMonThresholdInterfaces>
</Ifmon>

```

Table description

Item	Description
Feature name	Ifmon
Table name	IfMonThresholdInterfaces
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 Ifmon NETCONF XML API Configuration Reference.
InputUsage	Threshold for the inbound bandwidth usage	N/A	Include: <ul style="list-style-type: none"> HighThres LowThres 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HighThres	Upper threshold for the inbound bandwidth usage	N/A	Unsigned integer. Value range: 1 to 100.	N/A
LowThres	Lower threshold for the inbound bandwidth usage	N/A	Unsigned integer. Value range: 1 to 100.	N/A
OutputUsage	Threshold for the outbound bandwidth usage.	N/A	Include: <ul style="list-style-type: none"> HighThres LowThres 	N/A
HighThres	Upper threshold for the outbound bandwidth usage	N/A	Unsigned integer. Value range: 1 to 100.	N/A
LowThres	Lower threshold for the outbound bandwidth usage	N/A	Unsigned integer. Value range: 1 to 100.	N/A
InputErrorAlarm	Threshold for the number of inbound error packets	N/A	Include: <ul style="list-style-type: none"> HighThres LowThres Interval EnableShutdown 	N/A
HighThres	Upper threshold for the number of inbound error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of inbound error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of inbound error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the inbound bandwidth exceeds the upper threshold, the physical interface goes down	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
OutputErrorAlarm	Threshold for the number of outbound error packets.	N/A	Include: <ul style="list-style-type: none"> HighThres LowThres Interval EnableShutdown 	N/A
HighThres	Upper threshold for the number of outbound error packets.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LowThres	Lower threshold for the number of outbound error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of outbound error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of outbound error packets exceeds the upper threshold, the physical interface goes down	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
SdhError	Threshold for the number of SDH error packets.	N/A	Include: <ul style="list-style-type: none"> HighThres LowThres Interval EnableShutdown 	N/A
HighThres	Upper threshold for the number of SDH error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of SDH error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of SDH error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of SDH error packets exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
SdhB1Error	Threshold for the number of SDH B1 error packets.	N/A	Include: <ul style="list-style-type: none"> HighThres LowThres Interval EnableShutdown 	N/A
HighThres	Upper threshold for the number of SDH B1 error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	SDH B1 error packets.			
Interval	Inspection interval for the number of SDH B1 error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of SDH B1 error packets exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
SdhB2Error	Threshold for the number of SDH B2 error packets	N/A	Include: <ul style="list-style-type: none"> HighThres LowThres Interval EnableShutdown 	N/A
HighThres	Upper threshold for the number of SDH B2 error packets.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of SDH B2 error packets.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of SDH B2 error packets.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of SDH B2 error packets exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
CRCErrorThres	Threshold for the CRC error packets.	N/A	Include: <ul style="list-style-type: none"> Type HighThres LowThres Interval EnableShutdown 	N/A
Type	Inspection type for the CRC error packets	N/A	Enumeration: <ul style="list-style-type: none"> 1—absolute 2—ratio 	N/A
HighThres	Upper threshold for the CRC error packets.	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> absolute: 1–4294967295 ratio: 1 to 100 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LowThres	Low threshold for the CRC error packets.	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> absolute: 1–4294967295 ratio: 1 to 100 	N/A
Interval	Inspection interval for the CRC error packets	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
EnableShutdown	When the number of CRC error packets exceeds the upper threshold, the physical interface goes down.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
RxPauseFrame	Threshold for the number of received pause frames	N/A	Include: <ul style="list-style-type: none"> HighThres LowThres Interval 	N/A
HighThres	Upper threshold for the number of received pause frames.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of received pause frames.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of received pause frames.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
TxPauseFrame	Threshold for the number of transmitted pause frames	N/A	Include: <ul style="list-style-type: none"> HighThres LowThres Interval 	N/A
HighThres	Upper threshold for the number of transmitted pause frames.	N/A	Unsigned integer.	N/A
LowThres	Lower threshold for the number of transmitted pause frames.	N/A	Unsigned integer.	N/A
Interval	Inspection interval for the number of transmitted pause frames.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

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Ifmon1

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Ifmon

Ifmon/IfMonThresholdInterfaces

Message	Explanation
This interface does not support the operation.	During executing remove or delete operation for Ifmonthresholdinterfaces table, the interface does not support the operation.
Please specify the type, high-threshold, and low-threshold parameters at same time.	During executing set operation for Ifmonthresholdinterfaces table, Please specify the type, high-threshold, and low-threshold parameters at same time.
Please specify the type, high-threshold, low-threshold, and interval parameters at same time.	During executing set operation for Ifmonthresholdinterfaces table, please handle type, high-threshold, low-threshold, and interval at same time Please specify the type, high-threshold, low-threshold, and interval parameters at same time.
The high trap threshold must be greater than or equal to the low trap threshold.	During executing set operation for Ifmonthresholdinterfaces table, The high trap threshold must be greater than or equal to the low trap threshold.
When you configure the CRC thresholds in percent, the threshold values cannot be greater than 100%.	During executing set operation for Ifmonthresholdinterfaces table, the threshold values cannot be greater than 100% When you configure the CRC thresholds in percent.
There is no configure, please input configure parameters.	During executing set operation for Ifmonthresholdinterfaces table, please input configure parameters when there is no configure.

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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: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). 	N/A
Version	IGMP version	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• true—Enabled.• false—Disabled (default).	N/A

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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: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
Version	IGMP version	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">true—Enabled.false—Disabled.	N/A

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IGMP

IGMP/Interfaces

Message	Explanation
IGMP is not configured.	During executing set operation, IGMP is not configured.
IGMP is not ready.	During executing set operation, IGMP is not complete startup.

IGMP/Groups

Message	Explanation
IGMP is not configured.	During executing set operation, IGMP is not configured.
IGMP is not ready.	During executing set operation, IGMP is not complete startup.

IGMP/SrcList

Message	Explanation
IGMP is not configured.	During executing set operation, IGMP is not configured.
IGMP is not ready.	During executing set operation, IGMP is not complete startup.

IGMP/HostInterfaces

Message	Explanation
IGMP is not configured.	During executing set operation, IGMP is not configured.
IGMP is not ready.	During executing set operation, IGMP is not complete startup.

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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
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: <ul style="list-style-type: none">• 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>
    <ReportSourceAddr></ReportSourceAddr>
    <LeaveSourceAddr></LeaveSourceAddr>
    <Proxy></Proxy>
    <QuerierElection></QuerierElection>
  </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: <ul style="list-style-type: none"> disable(default) enable 	N/A
Version	Specify the IGMP snooping version for specified VLAN.	N/A	Enumeration: <ul style="list-style-type: none"> 2(default) 3 	N/A
DropUnknown	Set IGMP snooping dropping unknown for specified VLAN.	N/A	Enumeration: <ul style="list-style-type: none"> disable(default) enable 	N/A
Querier	Set IGMP snooping querier for specified	N/A	Enumeration: <ul style="list-style-type: none"> disable(default) enable 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	VLAN.			
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 address of IGMP general queries for specified VLAN.	N/A	IPv4 address.	Example: 1.1.1.1.
SpecialQuerySourceAddr	Specify the source IP address for IGMP group-specific queries for specified VLAN.	N/A	IPv4 address.	Example: 1.1.1.1.
ReportSourceAddr	Specify the source IP address of IGMP reports for the specified VLAN.	N/A	IPv4 address.	Example: 1.1.1.1.
LeaveSourceAddr	Specify the source IP address for IGMP leave messages for the specified VLAN.	N/A	IPv4 address.	Example: 1.1.1.1.
Proxy	Enable IGMP snooping proxy for the specified VLAN.	N/A	Enumeration: <ul style="list-style-type: none"> • disable(default) • enable 	N/A
QuerierElection	Enable IGMP snooping querier election for the specified VLAN.	N/A	Enumeration: <ul style="list-style-type: none"> • disable(default) • enable 	N/A

IGMPSnooping/VSI

This table contains the IGMP snooping information for VSIs.

XML structure

```

<IGMPSnooping>
  <VSIs>
    <VSI>
      <VsiName></VsiName>
      <Enabled></Enabled>
      <Version></Version>
      <DropUnknown></DropUnknown>
    </VSI>
  </VSIs>
</IGMPSnooping>

```



```

    <Querier></Querier>
    <QueryInterval></QueryInterval>
    <GeneralQuerySourceAddr></GeneralQuerySourceAddr>
    <SpecialQuerySourceAddr></SpecialQuerySourceAddr>
    <ReportSourceAddr></ReportSourceAddr>
    <LeaveSourceAddr></LeaveSourceAddr>
    <Proxy></Proxy>
    <QuerierElection></QuerierElection>
  </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: <ul style="list-style-type: none"> disable(default) enable 	N/A
Version	Specify the IGMP snooping version for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> 2(default) 3 	N/A
DropUnknown	Enable IGMP snooping dropping unknown multicast data for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> disable(default) enable 	N/A
Querier	Enable the IGMP snooping querier for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> disable(default) enable 	N/A
QueryInterval	Set the IGMP	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	snooping general query interval for the specified VSI.		Value range: 2 to 31744.	
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.
ReportSourceAddr	Specify the source IP address of IGMP reports for the specified VSI.	N/A	IPv4 address.	Example: 1.1.1.1.
LeaveSourceAddr	Specify the source IP address for IGMP leave messages for the specified VSI.	N/A	IPv4 address.	Example: 1.1.1.1.
Proxy	Enable IGMP snooping proxy for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> • disable(default) • enable 	N/A
QuerierElection	Enable IGMP snooping querier election for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> • disable(default) • enable 	N/A

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 for VLANs on a port.	N/A	VLAN list.	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
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 for VLANs on a port.	N/A	VLAN list.	You must specify VLANs when the operation is merge, create or replace. You can't specify VLANs 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: <ul style="list-style-type: none">• 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>
<ReportSourceAddr></ReportSourceAddr>
<LeaveSourceAddr></LeaveSourceAddr>
<Proxy></Proxy>
<QuerierElection></QuerierElection>
</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: <ul style="list-style-type: none"> enable disable 	N/A
Version	Specify the IGMP snooping version for specified VLAN.	N/A	Enumeration: <ul style="list-style-type: none"> 2 3 	N/A
DropUnknown	Set IGMP snooping dropping unknown for specified VLAN.	N/A	Enumeration: <ul style="list-style-type: none"> enable disable 	N/A
Querier	Set IGMP snooping querier for specified VLAN.	N/A	Enumeration: <ul style="list-style-type: none"> enable disable 	N/A
QueryInterval	Specify IGMP snooping general	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	query interval for specified VLAN.		Value range: 2 to 300.	
GeneralQuerySourceAddr	Specify the source IP address of IGMP general queries for specified VLAN.	N/A	IPv4 address.	Example: 1.1.1.1.
SpecialQuerySourceAddr	Specify the source IP address for IGMP group-specific queries for specified VLAN.	N/A	IPv4 address.	Example: 1.1.1.1.
ReportSourceAddr	Specify the source IP address of IGMP reports for the specified VLAN.	N/A	IPv4 address.	Example: 1.1.1.1.
LeaveSourceAddr	Specify the source IP address for IGMP leave messages for the specified VLAN.	N/A	IPv4 address.	Example: 1.1.1.1.
Proxy	Enable IGMP snooping proxy for the specified VLAN.	N/A	Enumeration: • disable • enable	N/A
QuerierElection	Enable IGMP snooping querier election for the specified VLAN.	N/A	Enumeration: • disable • enable	N/A

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>
    </VSI>
  </VSIs>
</IGMPSnooping>

```



```

<SpecialQuerySourceAddr></SpecialQuerySourceAddr>
<ReportSourceAddr></ReportSourceAddr>
<LeaveSourceAddr></LeaveSourceAddr>
<Proxy></Proxy>
<QuerierElection></QuerierElection>
</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: <ul style="list-style-type: none"> disable enable 	N/A
Version	Specify the IGMP snooping version for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> 2 3 	N/A
DropUnknown	Enable IGMP snooping dropping unknown multicast data for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> disable enable 	N/A
Querier	Enable IGMP snooping querier for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> 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
GeneralQuer	Specify the	N/A	IPv4 address.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
ySourceAddr	source IP address of IGMP general queries for the specified VSI.			
SpecialQuery SourceAddr	Specify the source IP address for IGMP group-specific queries for the specified VSI.	N/A	IPv4 address.	Example: 1.1.1.1.
ReportSource Addr	Specify the source IP address of IGMP reports for the specified VSI.	N/A	IPv4 address.	Example: 1.1.1.1.
LeaveSource Addr	Specify the source IP address for IGMP leave messages for the specified VSI.	N/A	IPv4 address.	Example: 1.1.1.1.
Proxy	Enable IGMP snooping proxy for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> • disable • enable 	N/A
QuerierElecti on	Enable IGMP snooping querier election for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> • disable • enable 	N/A

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 for VLANs on a port.	N/A	VLAN list.	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 for VLANs on a port.	N/A	VLAN list.	Example: 1,2,3,5-8,10-20.

IGMPSnooping/IPv4Layer2MulticastGroups

This table contains information about Layer 2 IP multicast groups for VLANs.

XML structure

```
<IGMPSnooping>
  <IPv4Layer2MulticastGroups>
    <VLAN>
      <VLANID></VLANID>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <IfIndex></IfIndex>
      <PortAttribute></PortAttribute>
    </VLAN>
  </IPv4Layer2MulticastGroups>
</IGMPSnooping>
```



```

    </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	IPv4 address.	N/A
SourceAddr	Multicast source.	Index	IPv4 address.	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 "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .

Column name	Column description	Column type	Data type and restrictions	Remarks
PortAttribute	Port attribute.	N/A	<p>Each bit represents a port attribute.</p> <p>Values:</p> <ul style="list-style-type: none"> 1—Learned from IGMP packets. 2—Learned from IGMP packets with Exclude filter mode. 4—Configured statically. 8—Learned from PIM packets. 16—Obtained from the kernel. 32—Learned from (*, *) entries. 64—Learned from (*, G) entries. 128—Processed successfully. 256—Failed to being processed. 512—TRILL port that floods multicast data after the topology changes in VLAN. 	<p>Examples:</p> <ul style="list-style-type: none"> 129—means a port learned from IGMP packets and processed successfully. 136—means a port learned from PIM packets and processed successfully.

IGMPSnooping/VsiIPv4Layer2MulticastGroups

This table contains information about Layer 2 IP multicast groups for VSIs.

XML structure

```

<IGMPSnooping>
  <VsiIPv4Layer2MulticastGroups>
    <VSI>
      <VsiName></VsiName>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <LinkID></LinkID>
      <PortAttribute></PortAttribute>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
    </VSI>
  </VsiIPv4Layer2MulticastGroups>
</IGMPSnooping>

```


Table description

Item	Description
Feature name	IGMPSnooping
Table name	VsiIPv4Layer2MulticastGroups
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
GroupAddr	Multicast group.	Index	IPv4 address.	N/A
SourceAddr	Multicast source.	Index	IPv4 address.	N/A
LinkID	Link ID.	Index	Unsigned integer.	N/A
PortAttribute	Port attribute.	N/A	<p>Each bit represents a port attribute. Values:</p> <ul style="list-style-type: none"> 1—Learned from IGMP packets. 2—Learned from IGMP packets with Exclude filter mode. 8—Learned from PIM packets. 16—Obtained from the kernel. 32—Learned from (*, *) entries. 64—Learned from (*, G) entries. 128—Processed successfully. 256—Failed to being processed. 512—Multicast tunnel interface for a multicast-mode VXLAN. 1024—Learned from EVPN BGP route. 2048—Port in Exclude filter-mode and learned from EVPN BGP route. 	<p>Examples:</p> <ul style="list-style-type: none"> 129—means a port learned from IGMP packets and processed successfully. 1152—means a port learned from EVPN BGP route and processed successfully.

Column name	Column description	Column type	Data type and restrictions	Remarks
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 <i>Ifmgr NETCONF XML API Configuration Reference</i> .
SrvID	Ethernet service instance ID.	N/A	Unsigned integer. Value range: 0 to 4096.	The value is 0 if the interface is not a Layer 2 Ethernet interface.

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IGMPSnooping

IGMPSnooping/Configuration

Message	Explanation
Invalid message type.	During executing get or set operation, daemon receives invalid message type.
IGMP snooping is disabling globally.	During executing set operation to enable global IGMP snooping, IGMP snooping is disabling globally.

IGMPSnooping/VLANs

Message	Explanation
Invalid message type.	During executing get or set operation, daemon receives invalid message type.
IGMP snooping drop-unknown is enabled globally.	During executing set operation to enable drop-unknown for this VLAN, IGMP snooping drop-unknown is enabled globally.
IGMP snooping is disabled on the VLAN.	During executing set operation for this VLAN, IGMP snooping is disabled on the VLAN.
IGMP snooping is disabled globally.	During executing set operation for this VLAN, IGMP snooping is disabled globally.
Invalid source address of general queries.	During executing set operation for GeneralQuerySourceAddr of this VLAN, the value of GeneralQuerySourceAddr is invalid.
Invalid source address of group-specific queries.	During executing set operation for SpecialQuerySourceAddr of this VLAN, the value of SpecialQuerySourceAddr is invalid.
Invalid source address of reports.	During executing set operation for ReportSourceAddr of this VLAN, the value of ReportSourceAddr is invalid.
Invalid source address of leave messages.	During executing set operation for LeaveSourceAddr of this VLAN, the value of LeaveSourceAddr is invalid.

IGMPSnooping/VSI

Message	Explanation
Invalid message type.	During executing get or set operation, daemon receives invalid message type.
IGMP snooping drop-unknown is enabled globally.	During executing set operation to enable drop-unknown for this VSI, IGMP snooping drop-unknown is enabled globally.
IGMP snooping is disabled on the VSI.	During executing set operation for this VSI, IGMP snooping is disabled on the VSI.
IGMP snooping is disabled globally.	During executing set operation for this VSI, IGMP snooping is disabled globally.
Invalid source address of general queries.	During executing set operation for GeneralQuerySourceAddr of this VSI, the value of GeneralQuerySourceAddr is invalid.

Invalid source address of group-specific queries.	During executing set operation for SpecialQuerySourceAddr of this VSI, the value of SpecialQuerySourceAddr is invalid.
Invalid source address of reports.	During executing set operation for ReportSourceAddr of this VSI, the value of ReportSourceAddr is invalid.
Invalid source address of leave messages.	During executing set operation for LeaveSourceAddr of this VSI, the value of LeaveSourceAddr is invalid.

IGMPSnooping/FastLeavePorts

Message	Explanation
Invalid message type.	During executing get or set operation, daemon receives invalid message type.
IGMP snooping is disabled globally.	During executing set operation, IGMP snooping is disabled globally.

IGMPSnooping/GroupLimitPorts

Message	Explanation
Invalid message type.	During executing get or set operation, daemon receives invalid message type.
IGMP snooping is disabled globally.	During executing set operation, IGMP snooping is disabled globally.
The configuration doesn't meet the requirements.	GroupLimitVLANList can't be removed alone, and should be removed together with Limit.

IGMPSnooping/IPv4Layer2MulticastGroups

Message	Explanation
Invalid message type.	During executing get or set operation, daemon receives invalid message type.

IGMPSnooping/ VSIIPv4Layer2MulticastGroups

Message	Explanation
Invalid message type.	During executing get or set operation, daemon receives invalid message type.

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Comware 7 IKE NETCONF XML API Error Message Reference

IKEv1/GlobalConfiguration

Message	Explanation
This device not support the configuration.	This device doesn't support the configuration..

IKEv1/Profiles

Message	Explanation
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.	Specifies the ISP domain used for requesting authorization attributes. The domain 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 (@).The 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.
User name must not include \ / : * ? < > @, and must not be a, al, all.	Specifies the username used for requesting authorization attributes. The username cannot contain a forward slash (/), backslash (\), vertical bar (), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).The username cannot be a, al, or all.
The number of keychains in the profile exceeds the limit.	You can specify a maximum of six IKE keychains for an IKE profile.
The number of certificate domains in the profile exceeds the limit.	You can specify a maximum of six PKI domains for an IKE profile.
Invalid username.	Specifies the username for client authentication. The username cannot contain a forward slash (/), backslash (\), vertical bar (), colon (:), asterisk (*), question mark (?), left angle bracket (<), right angle bracket (>), or an at sign (@).The username cannot be a, al, or all.
Invalid password.	Specifies the password for client authentication. Its plaintext form is a case-sensitive string of 1 to 63 characters. Its encrypted form is a case-sensitive string of 1 to 110 characters.

IKEv1/Ipv4AddressPreSharedKeys

Message	Explanation
A pre-shared key is already configured for this address.	The pre-shared key is already configured for this address and cannot be configured again.
A pre-shared key is already configured for this host.	The pre-shared key is already configured for this host and cannot be configured again.

IKEv1/ Ipv6AddressPreSharedKeys

Message	Explanation
A pre-shared key is already configured for this address.	The pre-shared key is already configured for this address and cannot be configured again.
A pre-shared key is already configured for this host.	The pre-shared key is already configured for this host and cannot be configured again.

IKEv1/Ipv4AddressGroup

Message	Explanation
Start IP address can't be higher than end IP address.	End-ipv4-address of an IKE IPv4 address group can't be lower than start-ipv4-address.
Number of IP addresses in the group exceeded the limit.	An IKE IPv4 address pool can contain a maximum of 8192 IPv4 addresses.
The address group overlaps with an existing address group.	Address groups cannot overlap with each other.
Configuration items don't meet the requirements.	The start-ipv4-address and end-ipv4-address must be specified together.
Invalid IPv4 mask.	Must specify correct IPv4 address mask or correct length of IPv4 address mask.

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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>
    <LoggingNegotiation></LoggingNegotiation>
    <CompatibleSm4></CompatibleSm4>
  </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: <ul style="list-style-type: none"> Mode Interval Retry 	N/A
Mode	The mode of DPD	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
SignIDfrom Cert	Digital signature authentication , If enable get the identity of the local end from the certificate	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> EstablishLimit NegotiateLimit 	N/A
EstablishLi	Limit the	N/A	Unsigned integer:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
mit	maximum number of established SAs		Value range:1 to 99999	
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: <ul style="list-style-type: none"> Type IpAddress Value 	N/A
Type	The type of the identity	N/A	Enumeration: <ul style="list-style-type: none"> 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.
LoggingNegotiation	Logging for IKE event negotiation	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable(default). 	N/A
CompatibleSm4	Backward compatibility for the sm4-cbc algorithm	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable(default). 	N/A

IKEv1/Profiles

This table is used to configure IKE profiles.

XML structure

```

<IKEv1>
  <Profiles>
    <Profile>
      <Name></Name>
      <Priority></Priority>
    </Profile>
  </Profiles>
</IKEv1>

```



```

<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>
  <SASoftDuration></SASoftDuration>
</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: <ul style="list-style-type: none"> 1—Main 2—Aggressive Default value is 1	N/A
ProposalList	Reference an IKE proposal for the IKE profile	Data structure	Members include: <ul style="list-style-type: none"> ProposalItem 	N/A
ProposalItem	IKE proposal number	N/A	Unsigned integer: Value range:1 to 65535	Contains up to 6 in ProposalList.
KeychainList	Reference an IKE keychain for the IKE profile	Data structure	Members include: <ul style="list-style-type: none"> KeychainItem 	N/A
KeychainItem	IKE keychain name	N/A	String: Length:1 to 63 characters	Case insensitive. Contains up to 6 in KeychainList.
CertificateDomainList	Reference a PKI domain for the IKE profile	Data structure	Members include: <ul style="list-style-type: none"> DomainItem 	N/A
DomainItem	PKI domain name	N/A	String: Length:1 to 31 characters Case insensitive.	Contains up to 6 in KeychainList.
CertACPList	Reference a	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	PKI certificate access control policy for the IKE profile	structure	<ul style="list-style-type: none"> CertACPIItem 	
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: <ul style="list-style-type: none"> FQDNItem 	N/A
FQDNItem	The peer FQDN name	N/A	String: Length:1 to 255 characters Case sensitive.	Contains unrestricted FQDNItem in MatchRemoteFQDNList.
MatchRemoteUserFQDNList	Configure a rule of match the peer User FQDN information for the IKE profile	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type IpAddress Value 	N/A
Type	The type of the identity	N/A	Enumeration: <ul style="list-style-type: none"> 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.
MatchLocalAddr	Match the local address	Data structure	Members include: <ul style="list-style-type: none"> AddressType IpAddress VRF 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> Interface 	
AddressType	The type of IP address	N/A	Enumeration: <ul style="list-style-type: none"> 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.
DPD	Dead Peer Detection(DPD) parameters	Data structure	Members include: <ul style="list-style-type: none"> Mode Interval Retry 	N/A
Mode	The mode of DPD	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false (default) 	N/A
AAAAAuthorization	AAA authentication	N/A	Members include: <ul style="list-style-type: none"> 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, 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	Username	N/A	String: case-sensitive. Length:1 to 55 characters.	User name must not include \ / : * ? < > @, and must not be a, al, all.
SASoftDuration	IKEv1 SA life time	N/A	Unsigned integer. Value range: 10 to 36000.	N/A

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	Index	Ipv4Address	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	IPv4 address			
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	Index	Ipv6Address	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	IPv6 address			
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	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Case insensitive	
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>
      <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	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Case insensitive	
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>
      <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: <ul style="list-style-type: none"> 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 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
MatchLocalAddr	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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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>

```

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	Index	String:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	keychain		Length:1 to 63 characters Case insensitive	
Host	Host name	Index	String: Length:1 to 255 characters Case sensitive	N/A
KeyType	The type of pre-shared key	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <Key></Key>
    </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: <ul style="list-style-type: none">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/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>
    <LoggingNegotiation></LoggingNegotiation>
    <CompatibleSm4></CompatibleSm4>
  </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: <ul style="list-style-type: none"> Mode Interval Retry 	N/A
Mode	The mode of DPD	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
SignIDfrom Cert	Digital signature authentication , If enable get the identity of the local end from the certificate	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> EstablishLimit NegotiateLimit 	N/A
EstablishLimit	Limit the maximum number of established	N/A	Unsigned integer: Value range:1 to 99999	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	SAs			
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: <ul style="list-style-type: none"> Type IpAddress Value 	N/A
Type	The type of the identity	N/A	Enumeration: <ul style="list-style-type: none"> 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.
LoggingNegotiation	Logging for IKE event negotiation	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
CompatibleSm4	Backward compatibility for the sm4-cbc algorithm	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A

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>
        <CertACPIItem></CertACPIItem>
    </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>
    <SASoftDuration></SASoftDuration>
</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: <ul style="list-style-type: none"> 1—Main 2—Aggressive Default value is 1	N/A
ProposalList	Reference an IKE proposal for the IKE profile	Data structure	Members include: <ul style="list-style-type: none"> ProposalItem 	N/A
ProposalItem	IKE proposal number	N/A	Unsigned integer: Value range:1 to 65535	Contains up to 6 in ProposalItem ProposalList.
KeychainList	Reference an IKE keychain for the IKE profile	Data structure	Members include: <ul style="list-style-type: none"> KeychainItem 	N/A
KeychainItem	IKE keychain name	N/A	String: Length:1 to 63 characters Case insensitive.	Contains up to 6 in KeychainItem KeychainList.
CertificateDomainList	Reference a PKI domain for the IKE profile	Data structure	Members include: <ul style="list-style-type: none"> DomainItem 	N/A
DomainItem	PKI domain name	N/A	String: Length:1 to 31 characters Case insensitive.	Contains up to 6 in KeychainItem KeychainList.
CertACPList	Reference a PKI certificate access control policy for the IKE profile	Data structure	Members include: <ul style="list-style-type: none"> CertACPIItem 	N/A
CertACPIItem	The Name of PKI certificate access control	N/A	String: Length:1 to 31 characters	Contains unrestricted CertACPIItem in CertACPList.

Column name	Column description	Column type	Data type and restrictions	Remarks
	policy		Case insensitive.	
MatchRemoteFQDNList	Configure a rule of match the peer FQDN information for the IKE profile	Data structure	Members include: <ul style="list-style-type: none"> FQDNItem 	N/A
FQDNItem	The peer FQDN name	N/A	String: Length:1 to 255 characters Case sensitive.	Contains unrestricted FQDNItem in MatchRemoteFQDNList.
MatchRemoteUserFQDNList	Configure a rule of match the peer User FQDN information for the IKE profile	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type IpAddress Value 	N/A
Type	The type of the identity	N/A	Enumeration: <ul style="list-style-type: none"> 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.
MatchLocalAddr	Match the local address	Data structure	Members include: <ul style="list-style-type: none"> AddressType IpAddress VRF Interface 	N/A
AddressType	The type of IP address	N/A	Enumeration: <ul style="list-style-type: none"> 1—Ipv4Address, 2—Ipv6Address 3—Interface 	N/A
IpAddress	The value of	N/A	Ipv4Address or Ipv6 Address	The value is whether

Column name	Column description	Column type	Data type and restrictions	Remarks
	address			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.
DPD	Dead Peer Detection(DPD) parameters	Data structure	Members include: <ul style="list-style-type: none"> Mode Interval Retry 	N/A
Mode	The mode of DPD	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false 	N/A
AAAAAuthori zation	AAA authentication	N/A	Members include: <ul style="list-style-type: none"> 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
SASoftDurat ion	IKEv1 SA life time	N/A	Unsigned integer. Value range: 10 to 36000.	N/A

IKEv1/MatchRemotelpv4Address

This table displays match remote identity IPv4 address information

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

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>
    </RemoteID>
  </MatchRemoteIpv6Address>
</IKEv1>

```



```

        <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>

```



```

    </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
Table name	MatchRemotIpv6Range
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
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>
```



```

    </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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
KeychainVRF	The VPN instance of keychain belongs to	N/A	String: Length:1 to 31 characters Case sensitive	N/A
MatchLocalAddr	Match the local address	Data structure	Members include: <ul style="list-style-type: none"> • AddressType • IpAddress • VRF • Interface 	N/A
AddressType	The type of IP address	N/A	Enumeration: <ul style="list-style-type: none"> • 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	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Case sensitive	
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: <ul style="list-style-type: none"> true—initiator. false—response. 	N/A
LocalID	The identity of the local end	Data structure	Members include: <ul style="list-style-type: none"> Type IpAddress Value 	N/A
Type	The type of the local identity	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type IpAddress Value 	N/A
Type	The type of the peer identity	N/A	Enumeration: <ul style="list-style-type: none"> 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.
RemotepAd	IP address of	N/A	Ipv4Address or Ipv6 Address	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
dress	peer gateway			
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: <ul style="list-style-type: none"> 1—Main. 2—Aggressive 	N/A
IsNATTraversal	UDP encapsulation used for NAT traversal	N/A	Boolean: <ul style="list-style-type: none"> 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
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

Column name	Column description	Column type	Data type and restrictions	Remarks
				about to expire and will be deleted soon. 0x80000000 Unknown , which means The SA status is Unknown.
DOI	Domain of interpretation which SA belong	N/A	Enumeration: <ul style="list-style-type: none"> 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>
    <OutP2Exchanges></OutP2Exchanges>
    <InP2ExchangeRejects></InP2ExchangeRejects>
    <OutP2ExchangeRejects></OutP2ExchangeRejects>
    <InP2SADelRequests></InP2SADelRequests>
    <OutP2SADelRequests></OutP2SADelRequests>
    <InNotifys></InNotifys>
    <OutNotifys></OutNotifys>
    <InDropPkts></InDropPkts>
    <OutDropPkts></OutDropPkts>
    <DropPktsDetails>
      <AuthFails></AuthFails>
      <NoSAFails></NoSAFails>
    </DropPktsDetails>
  </GlobalStatistics>
</IKEv1>

```



```

<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 established IKE tunnel	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
RespTunnels	Number of as a response to successful establishment	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	of IKE tunnel			
RespTunnel Fails	Number of as the response did not successfully established IKE tunnel	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
InOctets	Number of the received 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 received 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 received 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 received 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
InP2SADeIR requests	Number of received request of SA in the second stage	Data structure	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
OutP2SADeIR requests	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	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	news			
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: <ul style="list-style-type: none"> 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
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

Column name	Column description	Column type	Data type and restrictions	Remarks
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
InP2Exchan ges	Number of recived exchanges in the second	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	stage			
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 received 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
InP2SADeIRRequests	Number of received request of SA in the second stage	Data structure	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
OutP2SADeIRRequests	Number of received request of SA in the second stage	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
InP1SADeIRRequests	Number of received request of SA in the first stage	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$	N/A
OutP1SADeIRRequests	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 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

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
AlgName	IKEv1 supports algorithm name	N/A	String. Length: 1 to 255 characters. Case insensitive	N/A
AlgType	Type of algorithm	N/A	Enumeration: <ul style="list-style-type: none">1—Diffie-Hellman group2—Encryption algorithm3—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: <ul style="list-style-type: none"> true false 	N/A
VerifyMacAddress	Whether filter incoming packets by source MAC addresses or not.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • true • false 	N/A

Contents

IPCIM2

 IPCIM/IpsourceBindingInterface2

IPCIM

IPCIM/IpsourceBindingInterface

Message	Explanation
Invalid IP address. 非法的IP地址。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。
Configuration items don't meet the requirements. 不符合配置要求。	IP address and MAC address are invalid IP地址和MAC地址都无效。
Invalid MAC address. 非法的MAC地址。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。

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Columns	5

IPFW

IPFW/IPFWLoadSharing

This table contains load sharing information.

XML structure

```
<IPFW>
  <IPFWLoadSharing>
    <LoadSharing>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Type></Type>
      <AlgorithmNum></AlgorithmNum>
      <DestIp></DestIp>
      <SrcIp></SrcIp>
      <IpPro></IpPro>
      <DestPort></DestPort>
      <SrcPort></SrcPort>
      <IngressPort></IngressPort>
    </LoadSharing>
  </IPFWLoadSharing>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWLoadSharing
Table type	Multi-instance table
Row name	LoadSharing
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	N/A	Unsigned integer. Value range: 0 to 7.	N/A
AddressOrigin	Method for obtaining the IPv4 address	N/A	Enumeration: <ul style="list-style-type: none"> 1—PACKET. 2—FLOW. 3—ALGORITHM 	N/A
AlgorithmNum	Load sharing algorithm	N/A	Unsigned integer. Value range: 0 to 7.	N/A
DestIp	Load sharing based on destination IP address	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
SrcIp	Load sharing based on source IP address	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
IpPro	Load sharing based on IP protocol	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
DestPort	Load sharing based on destination port	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
SrcPort	Load sharing based on destination port	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
IngressPort	Load sharing based on ingress port	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A

IPFW/IPFWLastHopHold

This table contains last hop holding information.

XML structure

```
<IPFW>
  <IPFWLastHopHold>
    <LastHopHold>
      <IfIndex></IfIndex>
      <Mode></Mode>
    </LastHopHold>
  </IPFWLastHopHold>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWLastHopHold
Table type	Multi-instance table
Row name	LastHopHold
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> .
Mode	Enabling status of the last hop holding feature	N/A	Unsigned integer: <ul style="list-style-type: none"> 1—Enabled. 2—Disabled. 	N/A

IPFW/IPFWSetService

This table contains IP service information.

XML structure

```

<IPFW>
  <IPFWSetService>
    <DscpEnable></DscpEnable>
    <VpnPeerIdEnable></VpnPeerIdEnable>
    <MplsExpEnable></MplsExpEnable>
  </IPFWSetService>
</IPFW>

```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWSetService
Table type	Multi-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
DscpEnable	Enabling status of the DSCP service	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
VpnPeerIdEnable	Enabling status of the VPN peer ID service	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
MplsExpEnable	Enabling status of the MPLS EXP service	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A

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XML structure.....	6
Table description.....	6
Columns	6

IPFW

IPFW/IPFWLoadSharing

This table contains load sharing information.

XML structure

```
<IPFW>
  <IPFWLoadSharing>
    <LoadSharing>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Type></Type>
      <AlgorithmNum></AlgorithmNum>
      <DestIp></DestIp>
      <SrcIp></SrcIp>
      <IpPro></IpPro>
      <DestPort></DestPort>
      <SrcPort></SrcPort>
      <IngressPort></IngressPort>
    </LoadSharing>
  </IPFWLoadSharing>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWLoadSharing
Table type	Multi-instance table
Row name	LoadSharing
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Chassis	Chassis ID	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Slot	Slot ID	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
CPUID	CPU ID	N/A	Unsigned integer. Value range: 0 to 7.	N/A
AddressOrigin	Method for obtaining the IPv4 address	N/A	Enumeration: <ul style="list-style-type: none"> 1—PACKET. 2—FLOW. 3—ALGORITHM 	N/A
AlgorithmNum	Load sharing algorithm	N/A	Unsigned integer. Value range: 0 to 7.	N/A
DestIp	Load sharing based on destination IP address	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
SrcIp	Load sharing based on source IP address	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
IpPro	Load sharing based on IP protocol	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
DestPort	Load sharing based on destination port.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
SrcPort	Load sharing based on destination port	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
IngressPort	Load sharing based on ingress port	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A

IPFW/IPFWSpecification

This table contains load-sharing support information.

XML structure

```
<IPFW>
  <IPFWSpecification>
    <LoadSharingSupportFlow></LoadSharingSupportFlow>
    <LoadSharingSupportPacket></LoadSharingSupportPacket>
    <LoadSharingSupportSwitch></LoadSharingSupportSwitch>
    <LoadSharingSupportDestIp></LoadSharingSupportDestIp>
    <LoadSharingSupportSrcIp></LoadSharingSupportSrcIp>
    <LoadSharingSupportIpPro></LoadSharingSupportIpPro>
    <LoadSharingSupportDestPort></LoadSharingSupportDestPort>
    <LoadSharingSupportSrcPort></LoadSharingSupportSrcPort>
    <LoadSharingSupportIngressPort></LoadSharingSupportIngressPort>
    <SupportLastHop></SupportLastHop>
  </IPFWSpecification>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWSpecification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LoadSharingSupportFlow	Support loadsharing based on flow.	N/A	Boolean: <ul style="list-style-type: none">truefalse	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LoadSharingSupportPacket	Support loadsharing based on packet.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
LoadSharingSupportSwitch	Support loadsharing based on switch.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
LoadSharingSupportDestIp	Support loadsharing based on destination IP address.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
LoadSharingSupportSrcIp	Support loadsharing based on source IP address.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
LoadSharingSupportIpPro	Support loadsharing based on IP protocol.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
LoadSharingSupportDestPort	Support loadsharing based on destination port.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
LoadSharingSupportSrcPort	Support loadsharing based on source port.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
LoadSharingSupportIngressPort	Support loadsharing based on ingress port.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
SupportLastHop	Support last hop.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A

IPFW/IPFWLastHopHold

This table contains last hop holding information.

XML structure

```
<IPFW>
  <IPFWLastHopHold>
    <LastHopHold>
      <IfIndex></IfIndex>
      <Mode></Mode>
    </LastHopHold>
  </IPFWLastHopHold>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWLastHopHold
Table type	Multi-instance table
Row name	LastHopHold
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> .
Mode	Enabling status of the last hop holding feature	N/A	Unsigned integer: <ul style="list-style-type: none">• 1—Enabled.• 2—Disabled.	N/A

IPFW/IPFWSetService

This table contains IP service information.

XML structure

```
<IPFW>
  <IPFWSetService>
    <DscpEnable></DscpEnable>
    <VpnPeerIdEnable></VpnPeerIdEnable>
    <MplsExpEnable></MplsExpEnable>
  </IPFWSetService>
</IPFW>
```

Table description

Item	Description
Feature name	IPFW
Table name	IPFWSetService
Table type	Multi-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DscpEnable	Enabling status of the DSCP service	N/A	Boolean: <ul style="list-style-type: none">true—Enabled.false—Disabled.	N/A
VpnPeerIdEnable	Enabling status of the VPN peer ID service	N/A	Boolean: <ul style="list-style-type: none">true—Enabled.false—Disabled.	N/A
MplsExpEnable	Enabling status of the MPLS EXP service	N/A	Boolean: <ul style="list-style-type: none">true—Enabled.false—Disabled.	N/A

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Columns	3
IPoE/IPoESessionStatistics	3
XML structure	3
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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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> • 0—IPv4 • 1—IPv6 	IPv4 or IPv6
AuthPhase	Authentication phase.	Index	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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
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
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: <ul style="list-style-type: none"> • 0—IPv4 • 1—IPv6 	IPv4 or IPv6
AuthPhase	Authentication phase.	Index	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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
AAExpireNum	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
			<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
			<ul style="list-style-type: none"> 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.	This function is not supported in data plane mode.
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: <ul style="list-style-type: none"> • 0—NULL • 3—Static. • 4—DHCP • 5—Unclassified-ip 	N/A
IPv6SessionType	Session type	N/A	Enumeration: <ul style="list-style-type: none"> • 0—NULL • 3—Static. • 4—DHCP • 5—Unclassified-ip • 6—NDRS 	N/A
State	User state	N/A	Enumeration: <ul style="list-style-type: none"> • 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	This function is not supported in data plane

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	mode.
IPv6Pool	DHCPv6 address pool name	N/A	String, Length: 1 to 64 characters.	This function is not supported in data plane mode.
VxLANID	VXLAN ID	N/A	Unsigned integer.	N/A
IPv4DHCPLease Time	Lease duration	N/A	Unsigned integer.	Unit: seconds This function is not supported in data plane mode.
IPv6DHCPLease Time	Lease duration	N/A	Unsigned integer.	Unit: seconds This function is not supported in data plane mode.
LoginTime	User login time	N/A	DateTime.	Example: YYYY-MM-DDT hh:mm:ss This function is not supported in data plane mode.
OnlineTime	User online time	N/A	String. Length: 1 to 8 characters..	This function is not supported in data plane mode.
RemainTime	Session duration from AAA	N/A	Unsigned integer.	Unit: seconds This function is not supported in data plane mode.
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 This function is not supported in data plane mode.

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv6FlowStat	IPv6flow statistics	N/A	String. Length: 1 to 255 characters.	Include uplink packets/bytes and downlink packets/bytes This function is not supported in data plane mode.

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.	This function is not supported in data plane mode.
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

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4SessionType	Session type	N/A	Enumeration: <ul style="list-style-type: none"> • 0—NULL • 3—Static. • 4—DHCP • 5—Unclassified-ip 	N/A
IPv6SessionType	Session type	N/A	Enumeration: <ul style="list-style-type: none"> • 0—NULL • 3—Static. • 4—DHCP • 5—Unclassified-ip • 6—NDRS 	N/A
State	User state	N/A	Enumeration: <ul style="list-style-type: none"> • 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 characters.	This function is not supported in data plane mode.
IPv6Pool	DHCPv6 address pool name	N/A	String. Length: 1 to 64 characters.	This function is not supported in data plane mode.
VxLANID	VXLAN ID	N/A	Unsigned integer.	This function is not supported in data plane mode.
IPv4DHCPLeaseTime	Lease duration	N/A	Unsigned integer.	Unit: seconds This function is not supported in data plane mode.
IPv6DHCPLeaseTime	Lease duration	N/A	Unsigned integer.	Unit: seconds This function is not supported in data plane mode.
LoginTime	User login time	N/A	DateTime.	Example: YYYY-MM-DDT hh:mm:ss This function is not supported in data plane mode.
OnlineTime	User online time	N/A	String. Length: 1 to 8 characters.	This function is not supported in data plane mode.
RemainTime	Session duration from AAA	N/A	Unsigned integer.	Unit: seconds This function is not supported in data

Column name	Column description	Column type	Data type and restrictions	Remarks
				plane mode.
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 This function is not supported in data plane mode.
IPv6FlowStat	IPv6 flow statistics	N/A	String. Length: 1 to 255 characters.	Include uplink packets/bytes and downlink packets/bytes This function is not supported in data plane mode.

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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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 0—Client to server. 1—Server to client. 2—Both. 	N/A
FilterSeverity	Severity level of the IPS signature	N/A	Unsigned integer <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 packets.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Block. 1—Drop. 2—Permit. 3—Reset. 4—Redirect. 5—Default. 	N/A
Logging	Whether or not to	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	log the matching packets		<ul style="list-style-type: none"> true. false. 	
Capture	Whether or not to capture the matching packets	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">true.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> false. 	
Action	Action to take on packets matching the IPS signature	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true. false. 	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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.

IPS/UpdateLoggingDaily

This table contains daily sending settings for IPS signature library update logging.

XML structure

```

<IPS>
  <UpdateLoggingDaily>
    <StartTime></StartTime>
  </UpdateLoggingDaily>
</IPS>

```

Table description

Item	Description
Feature name	IPS
Table name	UpdateLoggingDaily
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
StartTime	Time to send IPS	N/A	Time	By default, IPS sends fastlog at 02:00:00

Column name	Column description	Column type	Data type and restrictions	Remarks
	fastlog every day		Format: HH:MM:SS	every day.

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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: <ul style="list-style-type: none"> • 0—Client to server. • 1—Server to client. • 2—Both. 	N/A
FilterSeverity	Severity level of the IPS signature	N/A	Unsigned integer: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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.		<ul style="list-style-type: none"> • 0—Block. • 1—Drop. • 2—Permit. • 3—Reset. • 4—Redirect. • 5—Default. 	
Logging	Whether or not to log the matching packets	N/A	Boolean: <ul style="list-style-type: none"> • true. • false. 	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: <ul style="list-style-type: none"> • 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
SubProtectio	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	<ul style="list-style-type: none"> 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
CategoryName	Name of attack	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Category	category		Length: 1 to 63 characters.	
SubCategoryList	List of attack subcategories contained in the attack category	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• true.• false.	N/A
Action	Action to take on packets matching the IPS signature	N/A	Enumeration: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• true.• false.	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: <ul style="list-style-type: none">• 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>
```



```

<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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true. false. 	N/A
Action	Action to take on packets matching the IPS signature	N/A	Enumeration: <ul style="list-style-type: none"> 0—Block. 1—Drop. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—Permit. 3—Reset. 4—Redirect. 	
Logging	Whether or not to log the matching packets	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">• 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
			<ul style="list-style-type: none"> • 2—High. • 3—Medium. • 4—Low. 	signature file.
Direction	Traffic direction to which the signature is applied	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true. • false. 	N/A
Action	Action to take on packets matching the signature	N/A	Enumeration: <ul style="list-style-type: none"> • 0—Block. • 1—Drop. • 2—Permit. • 3—Reset. • 4—Redirect. 	N/A
Logging	Whether or not to log the matching packets	N/A	Boolean: <ul style="list-style-type: none"> • true. • false. 	N/A
Capture	Whether or not to capture the matching packets	N/A	Boolean: <ul style="list-style-type: none"> • 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

IPS/UpdateLoggingDaily

This table contains daily sending settings for IPS signature library update logging.

XML structure

```
<IPS>
  <UpdateLoggingDaily>
    <StartTime></StartTime>
  </UpdateLoggingDaily>
```


</IPS>

Table description

Item	Description
Feature name	IPS
Table name	UpdateLoggingDaily
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
StartTime	Time to send IPS fastlog every day	N/A	Time Format: HH:MM:SS	By default, IPS sends fastlog at 02:00:00 every day.

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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 1—Ipv4Address. 2—Ipv6Address.
RemoteAddr	Remote IP address	Index	Ipv4 address or Ipv6 address
SecurityProto	IPsec Security Protocol	Index	Enumeration: <ul style="list-style-type: none"> 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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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: <ul style="list-style-type: none"> 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>
    <LoggingNegotiation></LoggingNegotiation>
    <SASoftDuration>
      <Seconds></Seconds>
      <KiloBytes></KiloBytes>
  </GlobalConf>
</IPsec>

```



```

    </SASoftDuration>
  </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: <ul style="list-style-type: none"> true—Enable(default). false—Disable.
LoggingPacket	Logging for IPsec packets	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable(default).
Redundancy	IPsec redundancy	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable(default).
DFBit	Set the DF bit for outer IP headers of encapsulated IPsec packets on all interface	N/A	Enumeration: <ul style="list-style-type: none"> 1—clear. 2—copy(default). 3—set.
AntiReplay	Anti-replay configuration	Data structure	Members include: <ul style="list-style-type: none"> State. CheckWindow.
State	Anti-replay state	N/A	Boolean: <ul style="list-style-type: none"> true—Enable(default). false—Disable.
CheckWindow	Anti-replay window size	N/A	Enumeration: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions
SADuration	IPsec SA life time	Data structure	Members include: <ul style="list-style-type: none"> 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.
FlowRedirect	OpenFlow entry deployment	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Fragment packets before IPsec encapsulation (default). 2—Fragment packets after IPsec encapsulation.
LoggingNegotiation	Logging for IPsec event negotiation	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable(default).
SASoftDuration	Global IPsec SA soft lifetime buffer	Data structure	Members include: <ul style="list-style-type: none"> Seconds. KiloBytes.
Seconds	The time-based global soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 20 to 201600.
KiloBytes	The traffic-based global soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 1000 to 4294901760.

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>
    <EsnEnable></EsnEnable>
  </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: <ul style="list-style-type: none"> 1—transport. 2—tunnel. 	N/A
Proto	Security protocol	N/A	Enumeration: <ul style="list-style-type: none"> 1—Specifies the AH protocol. 2—Specifies using the ESP protocol first and then using the AH protocol. 3—Specifies the ESP 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			protocol(default).	
ESPAuthAlgList	The authentication algorithm for ESP	Data structure	Members include: <ul style="list-style-type: none"> 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 ESPAuthAlgItem ESPAuthAlgList.
ESPEncrAlgList	The encryption algorithm for ESP	Data structure	Members include: <ul style="list-style-type: none"> 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 ESPEncrAlgItem ESPEncrAlgList.
AHAuthAlgList	The authentication algorithm number for AH	Data structure	Members include: <ul style="list-style-type: none"> 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 AHAuthAlgItem AHAuthAlgList.
PFS	Perfect Forward Secrecy	N/A	The Diffie-Hellman group ID is defined by IPsecCapabilities table.	N/A
EsnEnable	Extended Sequence Number function	N/A	Enumeration: <ul style="list-style-type: none"> 1—Disable(default). 2—ESN. 3—ESN and non-ESN. 	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>
      </ACL>
    </Policy>
  </IPv4ISAKMPPolicies>
</IPsec>

```



```

    <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>
  <SASoftDuration>
    <Seconds></Seconds>
    <KiloBytes></KiloBytes>
  </SASoftDuration>
  <IKEv2Profile></IKEv2Profile>
  <TfcEnable></TfcEnable>
</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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enable. false—Disable(default). 	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: <ul style="list-style-type: none"> RRIEnable. Preference. Tag 	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—traffic-based(default). 2—auto. 	N/A
SASoftDuration	IPsec SA soft lifetime buffer	Data structure	Members include: <ul style="list-style-type: none"> Seconds. KiloBytes. 	N/A
Seconds	The time-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 20 to 201600.	N/A
KiloBytes	The traffic-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 1000 to 4294901760.	N/A
IKEv2Profile	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TfcEnable	ESP TFC padding	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable(default). 	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>
    </Policy>
  </IPv6ISAKMPPolicies>
</IPsec>

```



```

</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>
<SASoftDuration>
  <Seconds></Seconds>
  <KiloBytes></KiloBytes>
</SASoftDuration>
<IKEv2Profile></IKEv2Profile>
<TfcEnable></TfcEnable>
</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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enable. false—Disable(default). 	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: <ul style="list-style-type: none"> RRIEnable. Preference. Tag 	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—traffic-based(default). 2—auto. 	N/A
SASoftDuration	IPsec SA soft lifetime buffer	Data structure	Members include: <ul style="list-style-type: none"> Seconds. KiloBytes. 	N/A
Seconds	The time-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 20 to 201600.	N/A
KiloBytes	The traffic-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 1000 to 4294901760.	N/A
IKEv2Profile	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TfcEnable	ESP TFC padding	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable(default). 	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>
<SADuration>
  <Seconds></Seconds>
  <KiloBytes></KiloBytes>
</SADuration>
<SAIdleTime></SAIdleTime>
<Redundancy>
  <InboundSyncInterval></InboundSyncInterval>
  <OutboundSyncInterval></OutboundSyncInterval>
</Redundancy>
<IKEv2Profile></IKEv2Profile>
<TfcEnable></TfcEnable>
</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	Index	Unsigned integer. Value range: 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	IPsec policy			
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
TransformsetList	Reference an IPsec transform set for the IPsec policy	Data structure	Members include: <ul style="list-style-type: none"> Transformset. 	N/A
Transformset	IPsec transform set name	N/A	String. Length: 1 to 63 characters.	Contains up to 6 in TransformsetTransformsetList.
QosPreClassify	QoS pre-classify feature	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable(default). 	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: <ul style="list-style-type: none"> RRIEnable. Preference. Tag 	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			The default is 100000.	
IKEv2Profile	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TfcEnable	ESP TFC padding	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable(default). 	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>
    </Template>
  </IPv6PolicyTemplates>
</IPsec>

```



```

<SAIdleTime></SAIdleTime>
<Redundancy>
  <InboundSyncInterval></InboundSyncInterval>
  <OutboundSyncInterval></OutboundSyncInterval>
</Redundancy>
<IKEv2Profile></IKEv2Profile>
<TfcEnable></TfcEnable>
</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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>established solely for it.</p> <p>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.</p> <p>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.</p>
Remote	Remote IP address for the IPsec policy	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enable. false—Disable(default). 	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: <ul style="list-style-type: none"> RRIEnable. Preference. Tag 	N/A
RRIEnable	The IPsec reverse route inject (RRI)	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	feature		<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
IKEv2Profile	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TfcEnable	ESP TFC padding	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable(default). 	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: <ul style="list-style-type: none"> Name Number. 	You can only specify Name or Number, but not both.

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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>
      <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: <ul style="list-style-type: none"> 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
QosPreClassify	QoS pre-classify feature	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable(default). 	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>
    </Key>
  </IPv4ManualPolicyKeys>
</IPsec>

```



```

    <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: <ul style="list-style-type: none"> 1—Inbound. 2—Outbound. 	N/A
Protocol	Security protocol	Index	Enumeration: <ul style="list-style-type: none"> 1—ESP. 2—AH. 	N/A
SPI	Security Parameter Index	N/A	Unsigned integer. Value range: 2 ⁸ to 2 ³² -1.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthorityHexKey	The hexadecimal authentication key	Data structure	Members include: <ul style="list-style-type: none"> Type Value 	N/A
Type	The key type	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type Value 	N/A
Type	The key type	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type Value 	N/A
Type	The key type	N/A	Enumeration: <ul style="list-style-type: none"> 1—simple. 2—cipher. 	N/A
Value	The value of the key	N/A	String	The plaintext key is a case-sensitive string of

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> 1—Inbound. 2—Outbound. 	N/A
Protocol	Security protocol	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type Value 	N/A
Type	The key type	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type Value 	N/A
Type	The key type	N/A	Enumeration: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> Type Value 	N/A
Type	The key type	N/A	Enumeration: <ul style="list-style-type: none"> 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
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>
        <Value></Value>
      </AuthorityHexKey>
      <EncryptionHexKey>
        <Type></Type>
        <Value></Value>
      </EncryptionHexKey>
      <StringKey>
        <Type></Type>
        <Value></Value>
      </StringKey>
    </Key>
  </ManualProfileKeys>
</IPsec>

```



```

    </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	<ul style="list-style-type: none"> Enumeration: 1—Inbound. 2—Outbound. 	N/A
Protocol	Security protocol	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type Value 	N/A
Type	The type of the key	N/A	Enumeration: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				1 to 85 characters.
EncryptionHexKey	The hexadecimal encryption key.	Data structure	Members include: <ul style="list-style-type: none"> Type Value 	N/A
Type	The type of the key	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type Value 	The key can only choose one of the hex and string type
Type	The type of the key	N/A	Enumeration: <ul style="list-style-type: none"> 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/IsakmpProfiles

This table displays ISAKMP IPsec profile information.

XML structure

```

<IPsec>
  <IsakmpProfiles>
    <IsakmpProfile>
      <Name></Name>
    
```



```

<Description></Description>
<TransformSetList>
  <TransformSet></TransformSet>
</TransformSetList>
<IkeProfileName></IkeProfileName>
<SADuration>
  <Seconds></Seconds>
  <KiloBytes></KiloBytes>
</SADuration>
<SAIdleTime ></SAIdleTime>
<SASoftDuration>
  <Seconds></Seconds>
  <KiloBytes></KiloBytes>
</SASoftDuration>
  <IKEv2ProfileName></IKEv2ProfileName>
</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
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: <ul style="list-style-type: none"> 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	N/A	String, case-insensitive	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
me	name		Length: 1 to 63 characters	
SADuration	IPsec SA lifetime	Data structure	Members include: <ul style="list-style-type: none"> 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
SASoftDuration	IPsec SA soft lifetime buffer	Data structure	Members include: <ul style="list-style-type: none"> Seconds. KiloBytes. 	N/A
Seconds	The time-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 20 to 201600.	N/A
KiloBytes	The traffic-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 1000 to 4294901760.	N/A
IKEv2Profile Name	Specify an IKEv2 profile for the IPsec policy	N/A	String. 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 Value range: 0 to 1023	N/A
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: <ul style="list-style-type: none"> 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>
    <LoggingNegotiation></LoggingNegotiation>
    <SASoftDuration>
      <Seconds></Seconds>
      <KiloBytes></KiloBytes>
    </SASoftDuration>
  </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: <ul style="list-style-type: none"> true—Enable. false—Disable.
LoggingPacket	Logging for IPsec packets	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
Redundancy	IPsec redundancy	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
DFBit	Set the DF bit for outer IP headers of encapsulated IPsec packets on all interface	N/A	Enumeration: <ul style="list-style-type: none"> 1—clear. 2—copy. 3—set.
AntiReplay	Anti-replay configuration	Data structure	Members include: <ul style="list-style-type: none"> State. CheckWindow.
State	Anti-replay state	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
CheckWindow	Anti-replay window size	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Seconds. KiloBytes.
Seconds	The time-based	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
	global lifetime of IPsec SA		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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Fragment packets before IPsec encapsulation. 2—Fragment packets after IPsec encapsulation.
LoggingNegotiation	Logging for IPsec event negotiation	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
SASoftDuration	Global IPsec SA soft lifetime buffer	Data structure	Members include: <ul style="list-style-type: none"> Seconds. KiloBytes.
Seconds	The time-based global soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 20 to 201600.
KiloBytes	The traffic-based global soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 1000 to 4294901760.

IPsec/TransformSets

This table displays transform sets information.

XML structure

```

<IPsec>
  <TransformSets>
    <TransformSet>
      <Name></Name>
      <EncapMode></EncapMode>
      <Proto></Proto>
    </TransformSet>
  </TransformSets>
</IPsec>

```



```

<ESPAuthAlgList>
  <ESPAuthAlgItem></ESPAuthAlgItem>
</ESPAuthAlgList>
<ESPEncrAlgList>
  <ESPEncrAlgItem></ESPEncrAlgItem>
</ESPEncrAlgList>
<AHAuthAlgList>
  <AHAuthAlgItem></AHAuthAlgItem>
</AHAuthAlgList>
<PFS></PFS>
<EsnEnable></EsnEnable>
</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: <ul style="list-style-type: none"> 1—transport. 2—tunnel. 	N/A
Proto	Security protocol	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> ESPAuthAlgItem. 	N/A
ESPAuthAlgItem	The authentication	N/A	The algorithm number is defined by IPsecCapabilities table.	Contains up to 2 ESPAuthAlgItem in

Column name	Column description	Column type	Data type and restrictions	Remarks
	algorithm number for ESP			ESPAuthAlgList.
ESPEncrAlgList	The encryption algorithm for ESP	Data structure	Members include: <ul style="list-style-type: none"> ESPEncrAlgItem. 	N/A
ESPEncrAlgItem	The encryption algorithm number for ESP	N/A	The algorithm number is defined by IPsecCapabilities table	Contains up to 6 ESPEncrAlgItem in ESPEncrAlgList.
AHAuthAlgList	The authentication algorithm number for ESP	Data structure	Members include: <ul style="list-style-type: none"> AHAuthAlgItem. 	N/A
AHAuthAlgItem	The authentication algorithm number for AH	N/A	The algorithm number is defined by IPsecCapabilities table.	Contains up to 2 AHAuthAlgItem in AHAuthAlgList.
PFS	Perfect Forward Secrecy	N/A	The Diffie-Hellman group ID is defined by IPsecCapabilities table.	N/A
EsnEnable	Extended Sequence Number function	N/A	Enumeration: <ul style="list-style-type: none"> 1—Disable(default). 2—ESN. 3—ESN and non-ESN. 	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>
    </Policy>
  </IPv4ISAKMPPolicies>
</IPsec>

```



```

<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>
<SASoftDuration>
  <Seconds></Seconds>
  <KiloBytes></KiloBytes>
</SASoftDuration>
<IKEv2Profile></IKEv2Profile>
  <TfcEnable></TfcEnable>    </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

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: <ul style="list-style-type: none"> RRIEnable. Preference. Tag 	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	
SATriggerMode	IPsec SA negotiation triggering mode	N/A	Enumeration: <ul style="list-style-type: none"> 1—traffic-based. 2—auto. 	N/A
SASoftDuration	IPsec SA soft lifetime buffer	Data structure	Members include: <ul style="list-style-type: none"> Seconds. KiloBytes. 	N/A
Seconds	The time-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 20 to 201600.	N/A
KiloBytes	The traffic-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 1000 to 4294901760.	N/A
IKEv2Profile	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TfcEnable	ESP TFC padding	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	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>
    </Policy>
  </IPv6ISAKMPPolicies>
</IPsec>

```



```

</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>
<SASoftDuration>
  <Seconds></Seconds>
  <KiloBytes></KiloBytes>
</SASoftDuration>
<IKEv2Profile></IKEv2Profile>
<TfcEnable></TfcEnable>
</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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: <ul style="list-style-type: none"> RRIEnable. Preference. Tag 	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—traffic-based. 2—auto. 	N/A
SASoftDuration	IPsec SA soft lifetime buffer	Data structure	Members include: <ul style="list-style-type: none"> Seconds. KiloBytes. 	N/A
Seconds	The time-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 20 to 201600.	N/A
KiloBytes	The traffic-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 1000 to 4294901760.	N/A
IKEv2Profile	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TfcEnable	ESP TFC padding	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	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>
    </Template>
  </IPv4PolicyTemplates>
</IPsec>

```



```

<QosPreClassify></QosPreClassify>
<RRI>
  <RRIEnable></RRIEnable>
  <Preference></Preference>
  <Tag></Tag>
</RRI>
<SADuration>
  <Seconds></Seconds>
  <KiloBytes></KiloBytes>
</SADuration>
<SAIdleTime></SAIdleTime>
<Redundancy>
  <InboundSyncInterval></InboundSyncInterval>
  <OutboundSyncInterval></OutboundSyncInterval>
</Redundancy>
<IKEv2Profile></IKEv2Profile>
<TfcEnable></TfcEnable>
</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
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: <ul style="list-style-type: none"> Name. Number. Mode. 	You can only specify Name or Number, but not both.

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 1—per-rule. 2—per-host. 3—aggregation. 	<p>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.</p> <p>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.</p> <p>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.</p>
Remote	Remote IP address for the IPsec policy	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Transformset. 	N/A
Transformset	IPsec transform set name	N/A	String. Length: 1 to 63 characters.	Contains up to 6 Transformset in TransformsetList.

Column name	Column description	Column type	Data type and restrictions	Remarks
QosPreClassify	QoS pre-classify feature	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: <ul style="list-style-type: none"> RRIEnable. Preference. Tag 	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
IKEv2Profile	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TfcEnable	ESP TFC padding	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A

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>
      <IKEv2Profile></IKEv2Profile>
      <TfcEnable></TfcEnable>
    </Template>
  </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—per-rule. 2—per-host. 3—aggregation. 	<p>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.</p> <p>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.</p> <p>aggregation: One IPsec</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
RRI	The IPsec reverse route inject (RRI).	Data structure	Members include: <ul style="list-style-type: none"> RRIEnable. Preference. Tag 	N/A
RRIEnable	The IPsec reverse route inject (RRI) feature	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Seconds. KiloBytes. 	N/A
Seconds	The	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	time-based lifetime of IPsec SA		Value range: 180 to 604800.	
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: <ul style="list-style-type: none"> 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
IKEv2Profile	Specify an IKEv2 profile for the IPsec policy	N/A	String. Length: 1 to 63 characters.	N/A
TfcEnable	ESP TFC padding	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	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>

```



```

    </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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
QosPreClassify	QoS pre-classify feature	N/A	Boolean: <ul style="list-style-type: none"> 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
SequenceNumber	The policy serial number	Index	Unsigned integer. Value range: 1 to $2^{16}-1$.	N/A
Direction	SA's direction	Index	Enumeration: <ul style="list-style-type: none"> 1—Inbound. 2—Outbound. 	N/A
Protocol	Security protocol	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type 	N/A
Type	The key type	N/A	Enumeration: <ul style="list-style-type: none"> 1—simple. 2—cipher. 	N/A
EncryptionHexKey	The hexadecimal encryption key.	Data structure	Members include: <ul style="list-style-type: none"> Type 	N/A
Type	The key type	N/A	Enumeration: <ul style="list-style-type: none"> 1—simple. 2—cipher. 	N/A
StringKey	The string key	Data structure	Members include: <ul style="list-style-type: none"> Type 	N/A
Type	The key type	N/A	Enumeration: <ul style="list-style-type: none"> 1—simple. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—cipher. 	

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: <ul style="list-style-type: none"> 1—Inbound. 2—Outbound. 	N/A
Protocol	Security protocol	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type 	N/A
Type	The key type	N/A	Enumeration: <ul style="list-style-type: none"> 1—simple. 2—cipher. 	N/A
EncryptionHexKey	The hexadecimal encryption key.	Data structure	Members include: <ul style="list-style-type: none"> Type 	N/A
Type	The key type	N/A	Enumeration: <ul style="list-style-type: none"> 1—simple. 2—cipher. 	N/A
StringKey	The string key	Data structure	Members include: <ul style="list-style-type: none"> Type 	N/A
Type	The key type	N/A	Enumeration: <ul style="list-style-type: none"> 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
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>
    </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	<ul style="list-style-type: none"> Enumeration: 1—Inbound. 2—Outbound. 	N/A
Protocol	Security protocol	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type 	N/A
Type	The key type	N/A	Enumeration: <ul style="list-style-type: none"> 1—simple. 2—cipher. 	N/A
EncryptionHexKey	The hexadecimal	Data structure	Members include: <ul style="list-style-type: none"> Type 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	encryption key.			
Type	The key type	N/A	Enumeration: <ul style="list-style-type: none"> 1—simple. 2—cipher. 	N/A
StringKey	The string key	Data structure	Members include: <ul style="list-style-type: none"> Type 	N/A
Type	The key type	N/A	Enumeration: <ul style="list-style-type: none"> 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>

```

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: <ul style="list-style-type: none"> 1—Ipv4Address. 2—Ipv6Address.
Status	Stateful failover status of the IPsec SA	N/A	Enumeration: <ul style="list-style-type: none"> 1—active. 2—standby.
SAMode	SA negotiation mode	N/A	Enumeration: <ul style="list-style-type: none"> 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	N/A	Ipv4 address or Ipv6 address

Column name	Column description	Column type	Data type and restrictions
	IPsec tunnel		
SrcFlow	Source data flow protected by the IPsec tunnel	Data structure	Members include: <ul style="list-style-type: none"> • Proto. • Addr. • MaskLen. • Port.
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: <ul style="list-style-type: none"> • 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.
SecurityProtocol	IPsec Security Protocol	N/A	Enumeration: <ul style="list-style-type: none"> • 1—AH. • 2—AH-ESP. • 3—ESP.
SPI	Security Parameter Index	Data structure	Members include: <ul style="list-style-type: none"> • 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 $2^{32}-1$.

Column name	Column description	Column type	Data type and restrictions
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.
PolicySeqNum	The sequence number for the IPsec policy	N/A	Unsigned integer. 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>
    </SA>
  </SAs>
</IPsec>

```



```

    <PathMTU></PathMTU>
    <MaxRcvSN></MaxRcvSN>
    <MaxSendSN></MaxSendSN>
    <Status></Status>
    <IfIndex></IfIndex>
    <PolicyName></PolicyName>
    <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: <ul style="list-style-type: none"> 1—Inbound. 2—Outbound.
Proto	Security protocol	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Manual. 2—ISAKMP. 3—Template.
EncapMode	Encapsulation mode	N/A	Enumeration: <ul style="list-style-type: none"> 1—transport. 2—tunnel.
PFS	Perfect	N/A	The Diffie-Hellman group ID is defined by

Column name	Column description	Column type	Data type and restrictions
	Forward Secrecy		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.
SADuration	IPsec SA life time	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enable. false—Disable.
AntiReplay	Anti-replay configuration	Data structure	Members include: <ul style="list-style-type: none"> State. CheckWindow.
State	Anti-replay state	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
CheckWindow	Anti-replay window size	N/A	Enumeration: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions
MaxRcvSN	Max sequence number in the received packets	N/A	Unsigned integer.
MaxSendSN	Max sequence number in the sent packets	N/A	Unsigned integer.
Status	Stateful failover status of the IPsec SA	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">1—Inbound.2—Outbound	N/A
Protocol	Security protocol	N/A	Enumeration: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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>
    </DropPktsStats>
  </GlobalStats>
</IPsec>
```



```

<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 $2^{64}-1$.

Column name	Column description	Column type	Data type and restrictions
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: <ul style="list-style-type: none"> NoAvailableSA. WrongSA. InvalidLen. AuthFailure. EncapFailure. 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	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.

Column name	Column description	Column type	Data type and restrictions
	ACL check failure		
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/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>

```



```

</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: <ul style="list-style-type: none"> NoAvailableSA. WrongSA. InvalidLen. AuthFailure.

Column name	Column description	Column type	Data type and restrictions
			<ul style="list-style-type: none"> • EncapFailure. • 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	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.

Column name	Column description	Column type	Data type and restrictions
	loopback limit exceeded		
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>
```

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: <ul style="list-style-type: none">true—The device supports redundancy.false—The device does not support redundancy.
SupportFlowRedirect	Support for OpenFlow entry deployment	N/A	Boolean: <ul style="list-style-type: none">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>
    </IsakmpProfile>
  </IsakmpProfiles>
</IPsec>
```



```

<TransformSetList>
  <TransformSet></TransformSet>
</TransformSetList>
<IkeProfileName></IkeProfileName>
<SADuration>
  <Seconds></Seconds>
  <KiloBytes></KiloBytes>
</SADuration>
<SAIdleTime ></SAIdleTime>
<SASoftDuration>
  <Seconds></Seconds>
  <KiloBytes></KiloBytes>
</SASoftDuration>
<IKEv2ProfileName></IKEv2ProfileName>
</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
SADuration	IPsec SA life time	Data structure	Members include: <ul style="list-style-type: none"> Seconds. KiloBytes. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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
SASoftDuration	IPsec SA soft lifetime buffer	Data structure	Members include: <ul style="list-style-type: none"> Seconds. KiloBytes. 	N/A
Seconds	The time-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 20 to 201600.	N/A
KiloBytes	The traffic-based soft lifetime buffer of IPsec SA	N/A	Unsigned integer. Value range: 1000 to 4294901760.	N/A
IKEv2Profile Name	Specify an IKEv2 profile for the IPsec policy	N/A	String. 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	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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IPsec/ IPv4ISAKMPPolicies

Message	Explanation
Operation failed. The smart link policy is already assigned to another IPsec policy.	An IPsec smart link policy can only be assigned to one IPsec policy.
The specified smart link policy doesn't exist.	You must specify an existing IPsec smart link policy by its name.

IPsec/SmartVpnProfile

Message	Explanation
Maximum number of smart link policies already reached.	The device supports a maximum of three IPsec smart link policies.
The policy have bound a smart-link policy,please undo it firstly.	An IPsec policy can use only one IPsec smart link policy.
IP address is not match,please try again.	When you remove the source and destination IP addresses configured for link quality probe packets, you must specify correct IP addresses .

IPsec/SmartVpnLinkLists

Message	Explanation
Link is active, can not modify.	Link can't be modified when it's active.
The same link has exist.	The link is already configured, can't be configured again.
Failed to configure the link. The maximum number of interfaces used by the links in the policy was already reached.	A maximum of 10 links can be configured in an IPsec smart link policy.
Failed to configure the link. The maximum number of remote IP addresses used by the links in the policy was already reached.	A maximum of 3 remote IP addresses can be configured in an IPsec smart link policy.
Failed to configure the link. The specified remote address is already used by another enabled smart link policy.	A remote IP address can be used by only one IPsec smart link policy.

IPsec/ SmartVpnMoveLinks

Message	Explanation
The specified link doesn't exist.	A link must be configured before you move it.

Can't move the link because it is in active state.	An active link can't be moved.
----------------------------------------------------	--------------------------------

IPsec/ SmartVpnActiveLinks

Message	Explanation
The specified link doesn't exist.	The link must be configured before you activate it.
Operation failed. The link is currently in active state.	An active link does not to be activated again.

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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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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XML Structure	5
Table description	5
Columns	5

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: <ul style="list-style-type: none"> • 0—Other. • 1—Manual. • 2—Manual-sub. • 3—DHCP. • 4—BOOTP. • 5—Negotiate. • 6—Unnumbered. • 7—VRRP. • 8—Cellular. • 9—MAD. 	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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">truefalse (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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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

Column name	Column description	Column type	Data type and restrictions	Remarks
				information, see the XSD document of your product. For information about VrfIndex, see L3vpn in L3vpn NETCONF XML API Data Reference.
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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IPV4ADDRESS

IPV4ADDRESS/IPv4Addresses

Message	Explanation
Invalid IP address or subnet mask. 无效IP地址或掩码长度。	Invalid IP address or subnet mask. 无效IP地址或掩码长度。
Maximum number of IP addresses already reached. 接口下已配置的IP地址个数达到上限。	Maximum number of IP addresses already reached. 接口下已配置的IP地址个数达到上限。
Address types don't match. IP地址类型不匹配。	Address types don't match. 删除地址时，类型不匹配。
The IP address doesn't exist. 该IP地址不存在。	The IP address doesn't exist, when getting or deleting it. 删除或获取地址时，该地址不存在。
Can't change the primary IP address to a secondary IP address. 不能直接将主IP地址转换成从IP地址。	Can't change the primary IP address to a secondary IP address. 不能直接将主IP地址转换成从IP地址。
The subnet overlaps with another interface. 与其他接口IP地址冲突。	The subnet overlaps with another interface. 与其他接口IP地址冲突。
Operation failed. 操作失败。	Failed to send the message. 发消息失败。
This IP address has been assigned to the management Ethernet interface on another MDC. 该IP地址已经被其它MDC的管理以太网接口占用。	This IP address has been assigned to the management Ethernet interface on another MDC. 该IP地址已经被其它MDC的管理以太网接口占用。
The configuration doesn't meet the requirements. 不符合配置要求。	The specified configuration must be empty, when deleting or removing. Or column incomplete when creating or replacing. 删除表项时，地址管理表项特殊，不支持单独恢复属性为默认值或者Create操作和Replace操作，普通列参数不齐全。

IPV4ADDRESS/IPv4AddressUnnumbered

Message	Explanation
Operation failed. 操作失败。	Failed to send message. 发消息失败。
Invalid lend interface! 被借用接口无效！	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。
Can't borrow an IP address from an IP unnumbered interface. 被借用的接口已经配置了地址借用。	Can't borrow an IP address from an IP unnumbered interface. 被借用IP地址的接口已经配置了地址借用功能。
Can't configure IP unnumbered on the interface	Can't configure IP unnumbered on the interface that has lent its IP

that has lent its IP address to another interface. 本接口已经被其它接口配置借用，不能配置地址借用。	address to another interface. 本接口的地址已经被其它接口借用，不能配置地址借用功能。
Can't borrow an IP address from itself. 不能借用本接口的IP地址。	Can't borrow an IP address from itself. 不能借用本接口的IP地址。

Contents

- IPv4Address event 1
 - XML structure for event subscription 1
 - XML structure for event report 1

IPv4Address event

This event is used to report IPv4 address information when the IPv4 address of interface is changed.

XML structure for event subscription

```
<IPv4AddressEvent>
  <IPv4Address>
    <Name></Name>
  </IPv4Address>
</IPv4AddressEvent>
```

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>IPv4Address</stream>
    <filter type="subtree">
      <IPv4AddressEvent xmlns="http://www.h3c.com/netconf/event:1.0/IPv4Address:1.0">
        <IPv4Address>
          <Name>GigabitEthernet2/0/1</Name>
        </IPv4Address>
      </IPv4AddressEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	IPv4Address
Event name	IPv4AddressEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/IPv4Address:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Length: 1 to 47 characters.	No

XML structure for event report

```
<IPv4AddressEvent>
  <IPv4Address>
```



```

<Name></Name>
<Ipv4Address></Ipv4Address>
<Ipv4Mask></Ipv4Mask>
<AddressOrigin></AddressOrigin>
<AddressStatus></AddressStatus>
<AddressEvent></AddressEvent>
</IPv4Address>
</IPv4AddressEvent>

```

Example:

```

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <IPv4AddressEvent xmlns="http://www.h3c.com/netconf/event:1.0/IPv4Address:1.0">
    <IPv4Address>
      <Name>GigabitEthernet2/0/1</Name>
      <Ipv4Address>1.1.1.1</Ipv4Address>
      <Ipv4Mask>255.255.255.0</Ipv4Mask>
      <AddressOrigin>1</AddressOrigin>
      <AddressStatus>1</AddressStatus>
      <AddressEvent>1</AddressEvent>
    </IPv4Address>
  </IPv4AddressEvent>
</notification>

```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Length: 1 to 47 characters.	No
Ipv4Address	IPv4 address	String, dotted decimal notation.	No
Ipv4Mask	IPv4 address mask	String, dotted decimal notation.	No
AddressOrigin	The way how the IPv4 address is obtained	Enumeration: <ul style="list-style-type: none"> 1—Manual 2—Manual-sub 3—DHCP 4—BOOTP 5—Negotiate 6—Unnumbered 7—VRRP 8—Cellular 9—MAD 	No

Column name	Column description	Data type and restrictions	Support for extended queries
AddressStatus	IPv4 address status	<ul style="list-style-type: none"> • 1—Active • 2---Inactive 	No
AddressEvent	IPv4 address event	<ul style="list-style-type: none"> • 1—Add • 2—Delete • 3—Update 	No

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IPV6ADDRESS/lpv6AddressesAuto	2
XML structure.....	3
Table description.....	3
Columns.....	3

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• true• false (default)	N/A
AutoLinkLocal	Whether or not generate a link-local address on an interface automatically.	N/A	Boolean: <ul style="list-style-type: none">• true• false (default)	N/A

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Table description.....	2
Columns.....	2
IPV6ADDRESS/IPv6Addresses	3
XML structure	3
Table description.....	3
Columns	3
IPV6ADDRESS/ Ipv6AddressSpecification	4
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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false 	N/A

Contents

IPV6ADDRESS1

 IPV6ADDRESS/Ipv6AddressesConfig 1

IPV6ADDRESS

IPV6ADDRESS/lpv6AddressesConfig

Message	Explanation
The IPv6 address conflicts with the IPv6 address of another interface. 该IPv6地址与其它接口IPv6地址冲突。	The IPv6 address conflicts with the IPv6 address of another interface. 该 IPv6 地址与其它接口下已经配置的 IPv6 地址冲突。
The prefix length can't be greater than 64. 前缀长度不应该超过64位。	The prefix length can't be greater than 64. 为接口配置EUI-64格式的global单播地址时，前缀长度取值不能大于64。
Can't assign the IPv6 unspecified address. 不能配置一个IPv6未指定地址。	Can't assign the IPv6 unspecified address. 不能将未指定地址配置为接口的global单播地址。
Can't assign the IPv6 loopback address. 不能配置一个IPv6环回地址。	Can't assign the IPv6 loopback address. 不能将环回地址配置为接口的global单播地址。
Can't assign an IPv6 multicast address. 不能配置一个IPv6组播地址。	Can't assign an IPv6 multicast address. 不能将组播地址配置为接口的global单播地址。
Can't assign a reserved IPv6 subnet anycast address. 不能配置一个子网路由任播地址。	Can't assign a reserved IPv6 subnet anycast address. 不能将子网路由任播地址配置为接口的global单播地址。
Can't assign an IPv6 link-local address. 不能配置一个链路本地地址。	Can't assign an IPv6 link-local address. 不能将链路本地地址配置为接口的global单播地址。
Invalid IPv6 link-local address. 非法的链路本地地址。	Invalid IPv6 link-local address. 配置的链路本地地址无效，链路本地地址的前缀是FE80::/10。
Maximum number of IPv6 addresses on the interface already reached. 该接口下配置的IPv6地址总个数超过上限。	Maximum number of IPv6 addresses on the interface already reached. 该接口下配置的单播地址总数超过上限。缺省情况下，接口下可配置的单播地址总数为32，具体取值产品可定制。
The IPv6 global unicast address conflicts with the anycast address on the interface. 接口上的IPv6 global单播地址和任播地址冲突。	The IPv6 global unicast address conflicts with the anycast address on the interface. 接口上的IPv6 global单播地址和任播地址冲突。
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The specified configuration must be empty, when deleting or removing. Or column incomplete when creating or replacing. 创建地址时，下发的请求中要包含索引列和非索引列。 删除地址时，下发的请求中只能包含索引列，不能包含非索引列。
Invalid IPv6 prefix. 非法的IPv6前缀。	Invalid configuration, please modify configuration under the guidance. 为接口配置EUI-64格式的global单播地址时，IPv6地址和IPv6地址前缀做与操作，结果和IPv6地址不同。

Contents

- IPv6Address event 1
 - XML structure for event subscription 1
 - XML structure for event report 2

IPv6Address event

This event is used to report IPv6 address information when the IPv6 address of an interface is changed.

XML structure for event subscription

```
<IPv6AddressEvent>
  <IPv6Address>
    <Name></Name>
  </IPv6Address>
</IPv6AddressEvent>
```

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>IPv6Address</stream>
    <filter type="subtree">
      <IPv6AddressEvent xmlns="http://www.h3c.com/netconf/event:1.0/IPv6Address:1.0">
        <IPv6Address>
          <Name>GigabitEthernet2/0/1</Name>
        </IPv6Address>
      </IPv6AddressEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	IPv6Address
Event name	IPv6AddressEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/IPv6Address:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Length: 1 to 47 characters.	No

XML structure for event report

```
<IPv6AddressEvent>
  <IPv6Address>
    <Name></Name>
    <Ipv6Address></Ipv6Address>
    <Ipv6PrefixLength></Ipv6PrefixLength>
    <AddressOrigin></AddressOrigin>
    <AddressStatus></AddressStatus>
    <AddressEvent></AddressEvent>
  </IPv6Address>
</IPv6AddressEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <IPv6AddressEvent xmlns="http://www.h3c.com/netconf/event:1.0/IPv6Address:1.0">
    <IPv6Address>
      <Name>GigabitEthernet2/0/1</Name>
      <Ipv6Address>1::1</Ipv6Address>
      <Ipv6PrefixLength>64</Ipv6PrefixLength>
      <AddressOrigin>1</AddressOrigin>
      <AddressStatus>1</AddressStatus>
      <AddressEvent>1</AddressEvent>
    </IPv6Address>
  </IPv6AddressEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
Name	Interface name	String. Length: 1 to 47 characters.	No
Ipv6Address	IPv6 address	Hexadecimal string, colon-separated.	No
Ipv6PrefixLength	Length of the IPv6 prefix	Unsigned integer. Value range: 1 to 128.	No
AddressOrigin	The way how the IPv6 address is obtained	Enumeration: <ul style="list-style-type: none">• 1—AssignedIP• 2—AssignedEUI64IP• 3—LinklocalIP• 4—AssignedAutoIP• 5—DHCPv6	No

Column name	Column description	Data type and restrictions	Support for extended queries
AddressStatus	IPv6 address status	Enumeration: <ul style="list-style-type: none"> • 1—Preferred • 2—Deprecated • 3—Invalid • 4—Tentative • 5—Duplicate 	No
AddressEvent	IPv6 address event	Enumeration: <ul style="list-style-type: none"> • 1—Add • 2—Delete • 3—Update 	No

Contents

- IRF.....1
 - IRF/ConvertMode.....1
 - XML structure.....1
 - Table description.....1
 - Columns.....1
 - IRF/PortConfiguration2
 - XML structure.....2
 - Table description.....2
 - Columns.....2

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: <ul style="list-style-type: none">truefalse	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: <ul style="list-style-type: none">truefalse	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

Contents

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Table description.....	3
Columns.....	3
IRF/IRFPorts.....	3
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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">IfNameMDCNameMode	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. <ul style="list-style-type: none"> • 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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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: <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> true false 	N/A
SupportEnhancedPortMode	Indicates whether support enhanced port mode.	N/A	Boolean <ul style="list-style-type: none"> true false 	N/A
SupportExtendedPortMode	Indicates whether support extended port mode.	N/A	Boolean <ul style="list-style-type: none"> true false 	N/A
SupportLightIRFMode	Indicates whether support light IRF mode.	N/A	Boolean <ul style="list-style-type: none"> true false 	N/A
SupportNormalIRFMode	Indicates whether support normal IRF mode.	N/A	Boolean <ul style="list-style-type: none"> true false 	N/A
SupportEnhancedIRFMode	Indicates whether support enhanced IRF mode.	N/A	Boolean <ul style="list-style-type: none"> true false 	N/A
SupportIRFModeConvert	Indicates whether support mode convert between IRF and stand-alone mode.	N/A	Boolean <ul style="list-style-type: none"> 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>
    <MacPersistTime></MacPersistTime>
    <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. <ul style="list-style-type: none"> 1—Timer 2—Always 3—No 	Timer: Enables the IRF bridge MAC address to remain unchanged for n minutes after the address owner 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.
MacPersistTime	IRF bridge MAC persistence time	N/A	Unsigned integer.	n: Bridge MAC address of the IRF fabric persists for n minutes after the master leaves.
BridgeMac	IRF bridge MAC address	N/A	Specifies a MAC address in the format of xx-xx-xx-xx-xx-xx. The MAC address cannot be the all-zero or all-F MAC address, or a multicast MAC address.	N/A
TopoType	Stack topology	N/A	Enumeration. <ul style="list-style-type: none"> 1—Chain 2—Ring 3—Unconverged 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
StackMode	Current stack mode of the device	N/A	Boolean <ul style="list-style-type: none"> 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.
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.
CPU_MAC	Member's CPU MAC address	N/A	MacAddress.	N/A
Board	Board information of the member	Data structure	Members: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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>
    <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

Column name	Column description	Column type	Data type and restrictions	Remarks
State	State of the IRF port.	N/A	Enumeration. <ul style="list-style-type: none"> 1—Disabled 2—Up 3—Down 4—Isolated 5—Timeout 	N/A
Interface	Physical port of an IRF port	Data structure	Members: <ul style="list-style-type: none"> IfName MDCName Mode LinkState 	Multi-instance. Maximum occurrence is MaxIfNumPerIRFPort. Also available in stand-alone mode.
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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
State	State of the IRF port in a MDC.	N/A	Enumeration. <ul style="list-style-type: none"> • 1—Up • 2—Down • 3—Timeout 	N/A

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IRF

IRF/ConvertMode

Message	Explanation
The device is already in stand-alone mode.	Mode convert failed.
The device is already in IRF mode.	Mode convert failed.
Please disconnect the IRF connection first.	Mode convert failed.
Please try again later.	Cannot convert mode right now.
Some files are open, please try again later.	Failed to reboot.
Flash is in write mode, please try again later.	Failed to reboot.
The specified boot file does not exist.	Failed to reboot.
System is saving configuration file, please try again later.	Failed to reboot.
System is updating, please try again later.	Failed to reboot.
System is busy now, please try again later.	Failed to reboot.
The MDC is busy. Please try again later.	Failed to reboot.
The Context is busy. Please try again later.	Failed to reboot.
Failed to reboot.	Failed to reboot.

IRF/Configuration

Message	Explanation
Configuration is not support in stand-alone mode.	Set to irf mode first.

IRF/PortConfiguration

Message	Explanation
Configuration is not support in stand-alone mode.	Set to irf mode first.

IRF/IRFPorts

Message	Explanation
The IRF port and the bound physical port must be on the same device.	The IRF port and the bound physical port are on different devices.
Physical port %s has been bound to another IRF port.	Bounding physical port failed.

Please shut down interface first.	Bounding physical port failed.
Number of physical ports exceeded the limit.	Failed to add physical port.
Exceed the max member ID.	Exceed the max member ID.
This mode is not support on the IRF port.	Failed to set mode.
Interface is not exist.	Invalid interface.
Interface can't be bound to an IRF port.	Failed to bound to an IRF port.
Interface doesn't belong to the specified MDC.	Failed to bound to an IRF port.
Configuration failed. The interface has been configured to combine with other breakout interfaces.	Configuration failed.
Configuration failed. The interface has been configured to split.	Configuration failed.

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XML structure	5
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ISIS

ISIS/Instances

This table contains IS-IS instance information.

XML structure

```
<ISIS>
  <Instances>
    <Instance>
      <Name></Name>
      <VRF></VRF>
    </Instance>
  </Instances>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
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: 0 to 31 characters.	After an instance is created, its VRF cannot be modified. An empty string indicates the public network

ISIS/VRFs

This table contains IS-IS VRF information.

XML structure

```
<ISIS>
  <VRFs>
    <VRF>
      <Name></Name>
      <CostStyle>
        <Style></Style>
        <RelaxSpfLimit></RelaxSpfLimit>
      </CostStyle>
      <NetworkEntity></NetworkEntity>
      <LevelId></LevelId>
      <DistributeBgpLs>
        <InstanceId></InstanceId>
        <LevelType></LevelType>
      </DistributeBgpLs>
      <NSR></NSR>
      <SRGB>
        <Lowerbound></Lowerbound>
        <Upperbound></Upperbound>
      </SRGB>
    </VRF>
  </VRFs>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	VRFs
Table type	Multi-instance table
Row name	VRF
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name.	Index	String.	It must be an

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	unsigned integer in the range of 1 to 65535.
CostStyle	Cost style.	Data structure	Members include: <ul style="list-style-type: none"> Style. RelaxSpfLimit. 	N/A
Style	Style ID.	N/A	Enumeration: <ul style="list-style-type: none"> 1—narrow (default). 2—wide. 3—compatible. 4—narrow-compatible. 5—wide-compatible. 	N/A
RelaxSpfLimit	Whether to accept routes with cost greater than 1023.	N/A	Boolean: <ul style="list-style-type: none"> true—Accept routes with cost greater than 1023. false—Does not accept routes with cost greater than 1023 (default). 	N/A
NetworkEntity	Configure the network entity title (NET) for an IS-IS process.	N/A	String. Length: 1 to 82 characters A NET comprises the following parts: <ul style="list-style-type: none"> Area ID—With a length of 1 to 13 bytes. System ID—A system ID uniquely identifies a host or router in the area and has a fixed 6-byte length. SEL—It has a value of 0 and a fixed 1-byte length. 	Specifies a NET as a dotted hexadecimal string in the X....X.XXXX....XX XX.00 format. The X....X segment represents the area address, the XXXX....XXXX segment represents the system ID, and the 00 segment is the SEL. Repeat supported for 3 times.
LevelId	Router working level.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Level 1. 2—Level 2. 3—Level 1 and Level 2 (default). 	N/A
DistributeBgp Ls	Allow the device to send the link state information to bgp	Data structure	Members include: <ul style="list-style-type: none"> InstanceId. LevelType. 	N/A
InstanceId	Instance Id	N/A	Unsigned integer. Value range 0 to 65535	N/A
LevelType	Level type	N/A	Enumeration: <ul style="list-style-type: none"> 1—Level 1. 2—Level 2. 	N/A.
NSR	Open the ISIS protocol NSR	N/A	Boolean: <ul style="list-style-type: none"> true—Open the ISIS 	N/A .

Column name	Column description	Column type	Data type and restrictions	Remarks
	function		protocol NSR function. <ul style="list-style-type: none"> false—Close the ISIS protocol NSR function (default). 	
SRGB	Specifies range of SRGB.	Data structure	Members include: <ul style="list-style-type: none"> Lowerbound. Upperbound. 	The members of Lowerbound and Upperbound must be specified.
Lowerbound	Min value of SRGB.	N/A	Unsigned integer. Value range: 16000 to 23999. Default: 16000.	N/A
Upperbound	Max value of SRGB.	N/A	Unsigned integer. Value range: 16001 to 24000. Default: 24000.	N/A

ISIS/Familys

This table contains address family identifier information of IS-IS.

XML structure

```

<ISIS>
  <Familys>
    <Family>
      <Name></Name>
      <Type></Type>
      <SrMpls></SrMpls>
      <SrAdjEnable></SrAdjEnable>
    </Family>
  </Familys>
</ISIS>

```

Table description

Item	Description
Feature name	ISIS
Table name	Familys
Table type	Multi-instance table
Row name	Family
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: 0 to 31 characters.	You must create an instance before merge or create type .It must be an unsigned integer in the range of 1 to 65535.
Type	Address Family Identifier	Index	Enumeration: <ul style="list-style-type: none"> 1—IPv4 unicast. 2—IPv6 unicast. 	N/A
SrMpls	Enable SR function based on MPLS.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable SR function based on MPLS. false—Disable SR function based on MPLS(default). 	This command only supports the ipv4 address family.
SrAdjEnable	Enable the neighbor label allocation function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable the neighbor label allocation function. false—Disable the neighbor label allocation function(default). 	This command only supports the ipv4 address family.

ISIS/Interfaces

This table contains IS-IS interface information.

XML structure

```

<ISIS>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <EnableNameV4></EnableNameV4>
      <EnableNameV6></EnableNameV6>
      <CostV4>
        <Level1Value></Level1Value>
        <Level2Value></Level2Value>
      </CostV4>
      <CostV6>
        <Level1Value></Level1Value>
        <Level2Value></Level2Value>
      </CostV6>
      <LevelType></LevelType>
      <PrefixSidV4>

```



```

<SidType></SidType>

<Sid></Sid>

<ExplicitNull></ExplicitNull>

<NFlagClear></NFlagClear>

</PrefixSidV4>
</Interface>
</Interfaces>
</ISIS>

```

Table description

Item	Description
Feature name	ISIS
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.	For information about IfIndex, see IfMgr in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
EnableName V4	Instance name	N/A	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
EnableName V6	Instance name	N/A	String. Length: 1 to 31 characters..	It must be an unsigned integer in the range of 1 to 65535.
CostV4	IPv4 interface cost.	Data structure	Members include: <ul style="list-style-type: none"> Level1Value. Level2Value 	N/A
CostV6	IPv6 interface cost	Data structure	Members include: <ul style="list-style-type: none"> Level1Value. Level2Value 	N/A
Level1Value	Level-1 cost value.	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Level2Value	Level-2 cost value.	N/A	Unsigned integer. Value range: 1 to 16777215	N/A
LevelType	Level type	N/A	Enumeration: <ul style="list-style-type: none"> 1—Level 1. 2—Level 2. 3—Level 1 and Level 2(default) 	N/A
PrefixSidV4	Prefix Segment ID messages.	Data structure	Members include: <ul style="list-style-type: none"> SidType. Sid. ExplicitNull. NFlagClear. 	The members of SidType and Sid must be specified.
SidType	The type of Prefix-SID	N/A	Enumeration: <ul style="list-style-type: none"> 1—Absolute value of Prefix-SID. 2—Index value of Prefix-SID. 	N/A
Sid	Prefix Segment ID	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
ExplicitNull	Explicit null label	N/A	Boolean: <ul style="list-style-type: none"> true—The upstream neighbor replaces the prefix SID with an explicit null label. false—The upstream neighbor does not replace the prefix SID with an explicit null label(default). 	N/A
NFlagClear	Clear the N-flag	N/A	Boolean: <ul style="list-style-type: none"> true—Clears the N-flag for the prefix SID. false—Does not clear the N-flag for the prefix SID(default). 	N/A

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XML structure	5
Table description.....	6
Columns.....	6

ISIS

ISIS/Instances

This table contains IS-IS instance information.

XML structure

```
<ISIS>
  <Instances>
    <Instance>
      <Name></Name>
      <VRF></VRF>
    </Instance>
  </Instances>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
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.	It must be an unsigned integer in the range of 1 to 65535.
VRF	VRF name.	N/A	String. Length: 0 to 31 characters.	After an instance is created, its VRF cannot be modified. An empty string indicates the public network

ISIS/VRFs

This table contains IS-IS VRF information.

XML structure

```
<ISIS>
  <VRFs>
    <VRF>
      <Name></Name>
      <CostStyle>
        <Style></Style>
        <RelaxSpfLimit></RelaxSpfLimit>
      </CostStyle>
      <NetworkEntity></NetworkEntity>
      <LevelId></LevelId>
      <DistributeBgpLs>
        <InstanceId></InstanceId>
        <LevelType></LevelType>
      </DistributeBgpLs>
      <NSR></NSR>
      <SRGB>
        <Lowerbound></Lowerbound>
        <Upperbound></Upperbound>
      </SRGB>
    </VRF>
  </VRFs>
</ISIS>
```

Table description

Item	Description
Feature name	ISIS
Table name	VRFs
Table type	Multi-instance table
Row name	VRF
Restrictions	None

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

Column name	Column description	Column type	Data type and restrictions	Remarks
				in the range of 1 to 65535.
CostStyle	Cost style.	Data structure	Members include: <ul style="list-style-type: none"> Style. RelaxSpfLimit. 	N/A
Style	Style ID.	N/A	Enumeration: <ul style="list-style-type: none"> 1—narrow. 2—wide. 3—compatible. 4—narrow-compatible. 5—wide-compatible. 	N/A
RelaxSpfLimit	Whether to accept routes with cost greater than 1023.	N/A	Boolean: <ul style="list-style-type: none"> true—Accept routes with cost greater than 1023. false—Does not accept routes with cost greater than 1023 . 	N/A
NetworkEntity	Configure the network entity title (NET) for an IS-IS process.	N/A	String. Length: 1 to 82 characters A NET comprises the following parts: <ul style="list-style-type: none"> Area ID—With a length of 1 to 13 bytes. System ID—A system ID uniquely identifies a host or router in the area and has a fixed 6-byte length. SEL—It has a value of 0 and a fixed 1-byte length. 	Specifies a NET as a dotted hexadecimal string in the X....X.XXXX....XX XX.00 format. The X....X segment represents the area address, the XXXX....XXXX segment represents the system ID, and the 00 segment is the SEL. Repeat supported for 3 times.
LevelId	Router working level.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Level 1. 2—Level 2. 3—Level 1 and Level 2 	N/A
DistributeBgp Ls	Allow the device to send the link state information to bgp	Data structure	Members include: <ul style="list-style-type: none"> InstanceId. LevelType. 	N/A
InstanceId	Instance Id	N/A	Unsigned integer. Value range 0 to 65535.	N/A
LevelType	Level type	N/A	Enumeration: <ul style="list-style-type: none"> 1—Level 1. 2—Level 2. 	N/A
NSR	Open the ISIS protocol NSR function	N/A	Boolean: <ul style="list-style-type: none"> true—Open the ISIS protocol NSR function. false—Close the ISIS 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			protocol NSR function.	
SRGB	Specifies range of SRGB.	Data structure	Members include: <ul style="list-style-type: none"> Lowerbound. Upperbound. 	The members of Lowerbound and Upperbound must be specified.
Lowerbound	Min value of SRGB.	N/A	Unsigned integer. Value range: 16000 to 23999.	N/A
Upperbound	Max value of SRGB.	N/A	Unsigned integer. Value range: 16001 to 24000.	N/A

ISIS/Familys

This table contains address family identifier information of IS-IS.

XML structure

```

<ISIS>
  <Familys>
    <Family>
      <Name></Name>
      <Type></Type>
      <SrMpls></SrMpls>
      <SrAdjEnable></SrAdjEnable>
    </Family>
  </Familys>
</ISIS>

```

Table description

Item	Description
Feature name	ISIS
Table name	Familys
Table type	Multi-instance table
Row name	Family
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Instance name	Index	String.	You must create an instance before

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 0 to 31 characters.	merge or create type .It must be an unsigned integer in the range of 1 to 65535.
Type	Address Family Identifier	Index	Enumeration: <ul style="list-style-type: none"> 1—IPv4 unicast. 2—IPv6 unicast. 	N/A
SrMpls	Enable SR function based on MPLS.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable SR function based on MPLS. false—Disable SR function based on MPLS. 	This command only supports the ipv4 address family.
SrAdjEnable	Enable the neighbor label allocation function.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable the neighbor label allocation function. false—Disable the neighbor label allocation function. 	This command only supports the ipv4 address family.

ISIS/Interfaces

This table contains IS-IS interface information.

XML structure

```

<ISIS>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <EnableNameV4></EnableNameV4>
      <EnableNameV6></EnableNameV6>
      <CostV4>
        <Level1Value></Level1Value>
        <Level2Value></Level2Value>
      </CostV4>
      <CostV6>
        <Level1Value></Level1Value>
        <Level2Value></Level2Value>
      </CostV6>
      <LevelType></LevelType>
      <PrefixSidV4>
        <SidType></SidType>
        <Sid></Sid>
        <ExplicitNull></ExplicitNull>
        <NFlagClear></NFlagClear>
      </PrefixSidV4>
    </Interface>
  </Interfaces>
</ISIS>

```



```

    </Interface>
  </Interfaces>
</ISIS>

```

Table description

Item	Description
Feature name	ISIS
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 Ifmgr NETCONF XML API Configuration Reference.
EnableName V4	Instance name	N/A	String. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
EnableName V6	Instance name	N/A	String. Length: 1 to 31 characters..	It must be an unsigned integer in the range of 1 to 65535.
CostV4	IPv4 interface cost.	Data structure	Members include:. • Level1Value. • Level2Value	N/A
CostV6	IPv6 interface cost	Data structure	Members include:. • Level1Value. • Level2Value	N/A
Level1Value	Level-1 cost value.	N/A	Unsigned integer. Value range: 1 to 16777215.	N/A
Level2Value	Level-2 cost value.	N/A	Unsigned integer. Value range: 1 to 16777215	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LevelType	Level type	N/A	Enumeration: <ul style="list-style-type: none"> 1—Level 1. 2—Level 2. 3—Level 1 and Level 2 	N/A
PrefixSidV4	Prefix Segment ID messages.	Data structure	Members include: <ul style="list-style-type: none"> SidType. Sid. ExplicitNull. NFlagClear. 	The members of SidType and Sid must be specified.
SidType	The type of Prefix-SID	N/A	Enumeration: <ul style="list-style-type: none"> 1—Absolute value of Prefix-SID. 2—Index value of Prefix-SID. 	N/A
Sid	Prefix Segment ID	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
ExplicitNull	Explicit null label	N/A	Boolean: <ul style="list-style-type: none"> true—The upstream neighbor replaces the prefix SID with an explicit null label. false—The upstream neighbor does not replace the prefix SID with an explicit null label. 	N/A
NFlagClear	Whether to clear the N-flag	N/A	Boolean: <ul style="list-style-type: none"> true—Clears the N-flag for the prefix SID. false—Does not clear the N-flag for the prefix SID. 	N/A

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ISIS

ISIS/ Interfaces

Message	Explanation
IS-IS is not configured. 未配置IS-IS。	The ISIS process doesn't start. Isis进程未启动。
The specified IS-IS process does not exist. 指定IS-IS进程不存在。	The specified IS-IS process does not exist. 指定IS-IS进程不存在。
The interface and the IS-IS process belong to different VPN instances. 接口与关联的IS-IS进程属于不同的VPN。	The interface and the IS-IS process belong to different VPN instances. 接口与关联的IS-IS进程属于不同的VPN。
Cannot configure the IS-IS process. The IS-IS process is performing NSR. IS-IS进程正在进行NSR操作，无法配置该IS-IS进程。	Cannot configure the IS-IS process. The IS-IS process is performing NSR. IS-IS进程正在进行NSR操作，无法配置该IS-IS进程。
The interface isn't a loopback interface. 接口不是loopback口。	The interface isn't a loopback interface. 接口不是loopback口。
The prefix SID already exists. 该SID已配置。	The prefix SID already exists. 该SID已配置。
The prefix SID is out of the SRGB range. 该prefix SID 超出SRGB范围。	The prefix SID is out of the SRGB range. 该prefix SID 超出SRGB范围。

ISIS/VRFs

Message	Explanation
IS-IS is not configured. 未配置IS-IS。	The ISIS process doesn't start. Isis进程未启动。
The maximum value must be greater than the minimum value. 最大值小于等于最小值。	The maximum value must be greater than the minimum value. 最大值小于等于最小值。
Cost style must be WIDE, COMPATIBLE or WIDE-COMPATIBLE when MPLS SR is enabled for IS-IS. 当进程使能SR MPLS时，Cost style 必须是wide、compatible或wide-compatible。	Cost style must be WIDE, COMPATIBLE or WIDE-COMPATIBLE when MPLS SR is enabled for IS-IS. 当进程使能SR MPLS时，Cost style 必须是wide、compatible或wide-compatible。
The SRGB is invalid. It must contain the configured prefix SIDs. 已配置的prefix-SID值不在目前配置的SRGB范围内。	The SRGB is invalid. It must contain the configured prefix SIDs. 已配置的prefix-SID值不在目前配置的SRGB范围内。
IS-IS进程已存在网络实体名称，无法修改系统ID。 The IS-IS process is already configured with a	IS-IS进程已存在网络实体名称，无法修改系统ID。 The IS-IS process is already configured with a NET. Cannot

NET. Cannot change the system ID.	change the system ID.
A maximum of three NETs with different area IDs and the same system ID can be configured. 最多允许配置三个区域ID不同、系统ID相同的网络实体名称。	A maximum of three NETs with different area IDs and the same system ID can be configured. 最多允许配置三个区域ID不同、系统ID相同的网络实体名称。

ISIS/Famillys

Message	Explanation
IS-IS is not configured. 未配置IS-IS。	The ISIS process doesn't start. Isis进程未启动。
Can't enable MPLS SR for IS-IS when the cost style isn't WIDE, COMPATIBLE, or WIDE-COMPATIBLE. cost style未配置为wide、compatible或wide-compatible。	Can't enable MPLS SR for IS-IS when the cost style isn't WIDE, COMPATIBLE, or WIDE-COMPATIBLE. cost style未配置为wide、compatible或wide-compatible。

ISIS/ Instances

Message	Explanation
IS-IS is not configured. 未配置IS-IS。	The ISIS process doesn't start. Isis进程未启动。
The interface and the IS-IS process belong to different VPN instances. 接口与关联的IS-IS进程属于不同的VPN。	The interface and the IS-IS process belong to different VPN instances. 接口与关联的IS-IS进程属于不同的VPN。
The IS-IS process has already been attached to another VPN instance. 已为IS-IS进程指定其所属的VPN。	The IS-IS process has already been attached to another VPN instance. 已为IS-IS进程指定其所属的VPN。

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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>
  <ClearAllDNSCaches>
    <Clear></Clear>
  </ClearAllDNSCaches>
</KDNS>
```

Table description

Item	Description
Feature name	KDNS
Table name	ClearAllDNSCaches
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

Contents

- KDNS1
 - KDNS/DNSCaches.....1
 - XML structure.....1
 - Table description.....1
 - Columns.....1

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>
      <Lifetime></Lifetime>    </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
CPUID	ID of the CPU on	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the card.		Value range: 0 to 255.	
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: <ul style="list-style-type: none"> • 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
Lifetime	Lifetime of DNS cache items.	N/A	Unsigned integer. Value range: 1 to 1440. Unit: minute	N/A

Contents

- L2MAD1
 - L2MAD/L2MADEnable1
 - XML structure1
 - Table description.....1
 - Columns.....1

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: <ul style="list-style-type: none"> • true • false (default) 	<p>You can use ARP MAD with BFD MAD and ND MAD, but not with LACP MAD.</p> <p>Do not configure ARP MAD on VLAN-interface 1.</p>
MADNDEnable	Whether the ND MAD function is enable.	N/A	Boolean: <ul style="list-style-type: none"> • true • false (default) 	<p>You can use ND MAD with BFD MAD and ARP MAD, but not with LACP MAD.</p> <p>Do not configure ND MAD on VLAN-interface 1.</p>

Contents

- L2MAD1
 - L2MAD/L2MADEnable1
 - XML structure1
 - Table description.....1
 - Columns.....1

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: <ul style="list-style-type: none">• true• false	N/A
MADNDEnable	Whether the ND MAD function is enable.	N/A	Boolean: <ul style="list-style-type: none">• true• false	N/A

Contents

- L2TPV2..... 1**
- L2TPV2/L2TPV2TunnelInfoClear/Table 1
 - XML structure..... 1
 - Table description 1
 - Columns..... 1

L2TPV2

L2TPV2/L2TPV2TunnelInfoClear/Table

This table is used to clear tunnel information.

XML structure

```
<L2TPV2>
  <L2TPV2TunnelInfoClear>
    <TunnelInfoClear>
      <TunnelID></TunnelID>
      <RemoteName></RemoteName>
      <LocalAddress></LocalAddress>
    </TunnelInfoClear>
  </L2TPV2TunnelInfoClear>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2TPV2TunnelInfoClear
Table type	Multi-instance table
Row name	TunnelInfoClear
Restrictions	The TunnelID or the LocalAddress can't be set together with the RemoteName

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Tunnel id	N/A	Unsigned integer. Value range: 1 to 65535	N/A
RemoteName	Tunnel peer name	N/A	String, case-sensitive. Length: 1 to 31 characters	N/A
LocalAddress	Tunnel local IP address	N/A	String, dotted decimal notation.	N/A

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XML structure	3
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L2TPV2/L2tpGlobal	4
XML structure	4
Table description	4
Columns	4
L2TPV2/L2tpv2Group	5
XML structure	5
Table description	5
Columns	6

L2TPV2

L2TPV2/L2tpAutoClient

This table contains the information about auto client.

XML structure

```
<L2TPV2>
  <L2tpAutoClient>
    <AutoClient>
      <IfIndex></IfIndex>
      <GroupID></GroupID>
    </AutoClient>
  </L2tpAutoClient>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpAutoClient
Table type	Multi-instance table
Row name	AutoClient
Restrictions	This table supports interface types: virtual-ppp 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 "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	The LAC uses tunnel parameters of the L2TP group to establish the tunnel.	N/A	Unsigned integer. Value range: 1 to 65535	The L2TP group specified must be an existing one in LAC mode.

L2TPV2/L2tpv2LacSrcIP

This table contains the information about L2TP tunnel source IP addresses.

XML structure

```

<L2TPV2>
  <L2tpv2LacSrcIP>
    <LacSrcIP>
      <IfIndex></IfIndex>
      <IPAddress></IPAddress>
    </LacSrcIP>
  </L2tpv2LacSrcIP>
</L2TPV2>

```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpv2LacSrcIP
Table type	Multi-instance table
Row name	LacSrcIP
Restrictions	This table supports interface types: vsi 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	Some versions support interface name. For relevant information, see the XSD document of your product. For information about lflindex, see "Appendix" in lfmgr NETCONF XML API Configuration Reference.
IPaddress	Tunnel local IP address	N/A	String, dotted decimal notation.	N/A

L2TPV2/L2tpVaPool

This table contains the information about using L2TPV2 va-pool.

XML structure

```
<L2TPV2>
  <L2tpVaPool>
    <VaPool>
      <L2tpVTNum></L2tpVTNum>
      <L2tpVNum></L2tpVNum>
    </VaPool>
  </L2tpVaPool>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpVaPool
Table type	Multi-instance table
Row name	VaPool
Restrictions	VT interface must be exist
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
L2tpVtNum	Template-number	Index	Unsigned integer.	Specifies an existing VT interface by its number to use the VA pool. The value range for this argument varies by device model.
L2tpVAnum	Va-volume	N/A	Unsigned integer. Value range: 1 to 65534	Specifies the maximum number of VA interfaces contained in the VA pool.

L2TPV2/L2tpGlobal

This table contains the information about global configuration of l2tp.

XML structure

```

<L2TPV2>
  <L2tpGlobal>
    <L2tpEnable></L2tpEnable>
    <IcrqLimit></IcrqLimit>
    <ScrqLimit></ScrqLimit>
  </L2tpGlobal>
</L2TPV2>

```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpGlobal
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
L2tpEnable	Whether the function of L2TP is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true false(default) 	N/A
IcrqLimit	Maximum number of ICRQ packets processed per second	N/A	Unsigned integer. Value range: 1 to 60000. Default: 0	N/A
SccrqLimit	Maximum number of SCCRQ packets processed per second	N/A	Unsigned integer. Value range: 1 to 10000. Default: 0	N/A

L2TPV2/L2tpv2Group

This table contains L2TP group configuration information.

XML structure

```

<L2TPV2>
  <L2tpv2Group>
    <Group>
      <GroupNum></GroupNum>
      <Mode></Mode>
      <AllowVTNum></AllowVTNum>
      <AllowRtmName></AllowRtmName>
      <LnsIP></LnsIP>
      <UserType></UserType>
      <UserName></UserName>
      <TunnelName></TunnelName>
      <Password></Password>
      <AuthEnable></AuthEnable>
      <MChapEnable></MChapEnable>
      <MLcpEnable></MLcpEnable>
      <AvpHiddenEnable></AvpHiddenEnable>
      <FlowControlEnable></FlowControlEnable>
      <HelloTime></HelloTime>
    </Group>
  </L2tpv2Group>
</L2TPV2>

```

Table description

Item	Description
Feature name	L2TPV2

Table name	L2tpv2Group
Table type	Multi-instance table
Row name	Group
Restrictions	N/A
Support for row creation and deletion	YES

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNum	Group number.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
Mode	Group mode.	N/A	Enumeration: <ul style="list-style-type: none"> 0—lac. 1—Ins 	N/A
AllowVTNum	Specifies a VT interface by its number.	N/A	Unsigned integer.	It can only be configured when Mode is Ins. The value range depended on device.
AllowRtmName	Specifies the name of the tunnel peer (LAC) initiating tunneling requests	N/A	String, case-sensitive. Length: 1 to 31 characters.	It can only be configured when Mode is Ins.
InsIP	Specifies LNS IP addresses.	N/A	String, case-sensitive. Length: 1 to 79 characters.	It can only be configured when Mode is lac. Separated by space if there are multiple addresses. Specifies a space-separated list of up to five addresses Example: 1.1.1.1 2.2.2.2 3.3.3.3.
UserType	To configure the condition for the LAC to initiate tunneling requests	N/A	Enumeration: <ul style="list-style-type: none"> 0—domain name 1—full user name 	It can only be configured when Mode is lac.
UserName	user name.	N/A	String, case-sensitive. Length: 1 to 255 characters.	It can only be configured when Mode is lac.
TunnelName	Local tunnel name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
PassWord	password.	N/A	String, case-sensitive. Length: 1 to 16 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthEnable	L2TP tunnel authentication.	N/A	Boolean: <ul style="list-style-type: none"> • true(default) • false 	N/A
MChapEnable	To force the LNS to perform CHAP authentication for users.	N/A	Boolean: <ul style="list-style-type: none"> • true • false(default) 	It can only be configured when Mode is Ins.
MLcpEnable	To force an LNS to perform LCP negotiation with users.	N/A	Boolean: <ul style="list-style-type: none"> • true • false(default) 	It can only be configured when Mode is Ins.
AvpHiddenEnable	To enable transferring AVP data in hidden mode.	N/A	Boolean: <ul style="list-style-type: none"> • true • false(default) 	N/A
FlowControlEnable	To enable L2TP session flow control.	N/A	Boolean: <ul style="list-style-type: none"> • true • false(default) 	N/A
HelloTime	Hello interval.	N/A	Unsigned integer. Value range: 60 to 1000. Default: 60	N/A

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L2TPV2

L2TPV2/L2tpAutoClient

This table contains the information about auto client.

XML structure

```
<L2TPV2>
  <L2tpAutoClient>
    <AutoClient>
      <IfIndex></IfIndex>
      <GroupID></GroupID>
    </AutoClient>
  </L2tpAutoClient>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpAutoClient
Table type	Multi-instance table
Row name	AutoClient
Restrictions	This table supports interface types: virtual-ppp interface

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.

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	The LAC uses tunnel parameters of the L2TP group to establish the tunnel.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A

L2TPV2/L2tpv2LacSrcIP

This table contains the information about L2TP tunnel source IP addresses.

XML structure

```
<L2TPV2>
  <L2tpv2LacSrcIP>
    <LacSrcIP>
      <IfIndex></IfIndex>
      <IPAddress></IPAddress>
    </LacSrcIP>
  </L2tpv2LacSrcIP>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpv2LacSrcIP
Table type	Multi-instance table
Row name	LacSrcIP
Restrictions	This table supports interface types: vsi interface

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
IPAddress	Tunnel local IP address.	N/A	String, dotted decimal notation.	N/A

L2TPV2/L2tpVaPool

This table contains the information about L2TPV2 va-pool.

XML structure

```
<L2TPV2>
  <L2tpVaPool>
    <VaPool>
      <L2tpVTNum></L2tpVTNum>
      <L2tpVNum></L2tpVNum>
    </VaPool>
  </L2tpVaPool>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	PPPUsePap
Table type	Multi-instance table
Row name	VaPool
Restrictions	VT interface must be exist

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
L2tpVTNum	Template-number	Index	Unsigned integer.	Specifies an existing VT interface by its number to use the VA pool. The value range for this argument varies by device model.
L2tpVNum	Va-volume	N/A	Unsigned integer. Value range: 1 to 65534	N/A

L2TPV2/L2tpGlobal

This table contains the information about global configuration of l2tp.

XML structure

```
<L2TPV2>
  <L2tpGlobal>
    <L2tpEnable></L2tpEnable>
    <IcrqLimit></IcrqLimit>
    <ScqrqLimit></ScqrqLimit>
  </L2tpGlobal>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpGlobal
Table type	Single instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
L2tpEnable	Whether the function of L2TP is enabled.	N/A	Boolean: <ul style="list-style-type: none">• true• false	N/A
IcrqLimit	Maximum number of ICRQ packets processed per second	N/A	Unsigned integer. Value range: 1 to 60000.	N/A
ScqrqLimit	Maximum number of SCCRQ packets processed per second	N/A	Unsigned integer. Value range: 1 to 10000.	N/A

L2TPV2/L2TPV2TunnelInfo

This table contains the information about using display l2tp tunnel to display information about L2TP tunnels.

XML structure

```
<L2TPV2>
  <L2TPV2TunnelInfo>
    <TunnelInfo>
      <LocalTIDIndex></LocalTIDIndex>
      <RemoteTID></RemoteTID>
      <State></State>
      <Sessions></Sessions>
      <RemoteAddr></RemoteAddr>
      <RemotePort></RemotePort>
      <RemoteName></RemoteName>
      <ModeType></ModeType>
    </TunnelInfo>
  </L2TPV2TunnelInfo>
</L2TPV2>
```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2TPV2TunnelInfo
Table type	Multi-instance table
Row name	TunnelInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalTIDIndex	Local tunnel ID.	Index	Unsigned integer. Value range: 1 to 65535.	N/A
RemoteTID	Remote tunnel ID.	N/A	Unsigned integer. <ul style="list-style-type: none">Value range: 1 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Tunnel state.	N/A	Enumeration: <ul style="list-style-type: none"> • 0—Idle (default) • 1—Wait-reply • 2—Wait-connect • 3—Established • 4—Stopping 	Session state: Idle. Wait-tunnel—Waits for the tunnel to be established. Wait-reply—Waits for an ICRP message indicating the call is accepted. Wait-connect—Waits for an ICCN message. Established—Establishes tunnel successfully. Stopping—Is being offline.
Sessions	Number of sessions within the tunnel.	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
RemoteAddr	IP address of the peer.	N/A	String, dotted decimal notation.	N/A
RemotePort	UDP port number of the peer.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
RemoteName	Name of the tunnel peer.	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
ModeType	TunnelModeType.	N/A	Enumeration: <ul style="list-style-type: none"> • 0—LAC • 1—LNS 	N/A

L2TPV2/L2tpv2Group

This table contains L2TP group configuration information.

XML structure

```

<L2TPV2>
  <L2tpv2Group>
    <Group>
      <GroupNum></GroupNum>
      <Mode></Mode>
      <AllowVtNum></AllowVtNum>
      <AllowRtmName></AllowRtmName>
      <LnsIP></LnsIP>
      <UserType></UserType>
      <UserName></UserName>
    </Group>
  </L2tpv2Group>
</L2TPV2>

```



```

    <TunnelName></TunnelName>
    <Password></Password>
    <AuthEnable></AuthEnable>
    <MChapEnable></MChapEnable>
    <MLcpEnable></MLcpEnable>
    <AvpHiddenEnable></AvpHiddenEnable>
    <FlowControlEnable></FlowControlEnable>
    <HelloTime></HelloTime>
  </Group>
</L2tpv2Group>
</L2TPV2>

```

Table description

Item	Description
Feature name	L2TPV2
Table name	L2tpv2Group
Table type	Multi-instance table
Row name	Group
Restrictions	N/A

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupNum	Group number.	Index	Unsigned integer. <ul style="list-style-type: none"> Value range: 1 to 65535. 	N/A
Mode	Group mode.	N/A	Enumeration: <ul style="list-style-type: none"> 0—lac 1—Ins 	N/A
AllowVTNum	Specifies a VT interface by its number.	N/A	Unsigned integer.	It can only be visible when Mode is Ins. The value range depended on device.
AllowRtmName	Specifies the name of the tunnel peer (LAC) initiating tunneling requests	N/A	String, case-sensitive. Length: 1 to 31 characters.	It can only be visible when Mode is Ins.

Column name	Column description	Column type	Data type and restrictions	Remarks
LnsIP	Specifies LNS IP addresses.	N/A	String, case-sensitive. Length: 1 to 79 characters.	It can only be visible when Mode is lac. Separated by space if there are multiple addresses. Specifies a space-separated list of up to five addresses Example: 1.1.1.1 2.2.2.2 3.3.3.3.
UserType	To configure the condition for the LAC to initiate tunneling requests	N/A	Enumeration: <ul style="list-style-type: none"> • 0—domain name • 1—full user name 	It can only be visible when Mode is lac.
UserName	user name.	N/A	String, case-sensitive. Length: 1 to 255 characters.	It can only be visible when Mode is lac.
TunnelName	Local tunnel name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
PassWord	password.	N/A	String, case-sensitive. Length: 1 to 16 characters.	N/A
AuthEnable	L2TP tunnel authentication.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	N/A
MChapEnable	To force the LNS to perform CHAP authentication for users.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	It can only be visible when Mode is lns.
MLcpEnable	To force an LNS to perform LCP negotiation with users.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	It can only be visible when Mode is lns.
AvpHiddenEnable	To enable transferring AVP data in hidden mode.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	N/A
FlowControlEnable	To enable L2TP session flow control.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	N/A
HelloTime	Hello interval.	N/A	Unsigned integer. Value range: 60 to 1000.	N/A

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Comware 7 L2TPV2 NETCONF XML API Error Message Reference

L2TPV2/L2tpAutoClient

Message	Explanation
Failed to process. 处理失败。	The operation failed 操作失败。

L2TPV2/L2tpGlobal

Message	Explanation
Failed to process.. 处理失败。	The operation failed 操作失败。

L2TPV2/L2TPV2TunnelInfoClear

Message	Explanation
The configuration doesn't meet the requirements. 配置不符合要求。	The configuration parameter is incomplete. 配置参数不全。
Failed to process. 操作失败。	The operation failed 操作失败。
Invalid IP address. 非法IP地址。	Invalid IP address. 非法IP地址。

L2TPV2/L2tpv2Group

Message	Explanation
The configuration doesn't meet the requirements. 配置不符合要求。	The configuration parameter is incomplete. 配置参数不全。
Duplicate IP address. IP地址重复。	Duplicate IP address. IP地址重复。
Failed to process. 操作失败。	The operation failed 操作失败。
The L2TP group already exists, and its mode is LAC.	The L2TP group already exists, and its mode is LAC.

该L2TP组已存在，其模式为LAC。	该L2TP组已存在，其模式为LAC。
The L2TP group already exists, and its mode is LNS.	The L2TP group already exists, and its mode is LNS.
该L2TP组已存在，其模式为LNS。	该L2TP组已存在，其模式为LNS。
The number of L2TP groups has reached the maximum.	The number of L2TP groups has reached the maximum.
L2TP组个数已达上限。	L2TP组个数已达上限。
This LAC is already specified for L2TP group x.	This LAC is already specified for L2TP group x.
该LAC已被L2TP组x使用。	该LAC已被L2TP组x使用。
The value is out of range.	The specified VT interface is out of range.
参数值超出范围。	VT口参数超出范围。
The specified VT interface doesn't exist.	The specified VT interface doesn't exist.
指定的VT口不存在。	指定的VT口不存在。
The local IP address or tunnel peer name is inconsistent with the configured local IP address or tunnel peer name.	The local IP address or tunnel peer name is inconsistent with the configured local IP address or tunnel peer name.
本地IP地址或对端隧道名与配置的IP地址或对端隧道名有冲突。	本端隧道名或IP和对端隧道名或IP冲突。
L2TP group x is already configured to provide service for users who use this name.	The user who use this name has been used by L2TP group x.
L2TP组x已经配置为使用这个名字的用户提供服务。	该用户名已被L2TP组x使用。
L2TP group x is already configured to provide service for users in this domain.	The domain has been used by L2TP group x.
L2TP组x已经配置为该域的用户提供服务。	该域已被L2TP组x使用。
Invalid IP address.	Invalid IP address.
非法IP地址。	非法IP地址。
The object does not support the specified configuration.	The configuration can't be applied to this object.
对象不支持指定配置。	配置不能应用在这个对象上。

L2TPV2/L2tpv2LacSrcIP

Message	Explanation
Invalid IP address.	Invalid IP address.
非法IP地址。	非法IP地址。
The object does not support the specified configuration.	The configuration can't be applied to this object.
对象不支持指定配置。	配置不能应用在这个对象上。

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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

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.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	
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

Column name	Column description	Column type	Data type and restrictions	Remarks
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>
    <StatisticsInterval></StatisticsInterval>
  </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: <ul style="list-style-type: none">true—Enabled.false—Disabled(default).	N/A
StatisticsInterval	Interval for collecting packets statistics	N/A	Unsigned integer Value range: 30 to 65535. Unit: seconds.	N/A

L2VPN/VSI

This table contains information about VSIs.

XML structure

```
<L2VPN>
  <VSIs>
    <VSI>
      <VsiName></VsiName>
      <HubSpoke></HubSpoke>
      <ArpSuppression></ArpSuppression>
      <MacLearning></MacLearning>
      <MacLimit></MacLimit>
      <Flooding></Flooding>
      <FloodType></FloodType>
      <VsiInterfaceID></VsiInterfaceID>
      <Statistics></Statistics>
      <StatisticsOverlayTunnel></StatisticsOverlayTunnel>
      <Description></Description>
      <Bandwidth></Bandwidth>
      <BroadcastRestrain></BroadcastRestrain>
      <MulticastRestrain></MulticastRestrain>
      <UnknownUnicastRestrain></UnknownUnicastRestrain>
      <AdminStatus></AdminStatus>
      <Dscp></Dscp>
      <ServiceClass></ServiceClass>
    </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	N/A	Boolean:	Support for this column depends

	capability.		<ul style="list-style-type: none"> • true—Supported. • false—Not supported(default). 	on the device model. No modification.
ArpSuppression	ARP flooding suppression	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled. • false—Disabled(default). 	Need confirm by products .
MacLearning	MAC address learning	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled(default). • false—Disabled. 	Support for this column depends on the device model.
MacLimit	MAC table limit	N/A	Unsigned integer. Value range: The value range varies by device model.	Support for this column depends on the device model.
Flooding	Flooding for all destination-unknown frames	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled(default). • false—Disabled. 	N/A
FloodType	Flood type	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true—Enabled. • false—Disabled(default). 	N/A
StatisticsOverlayTunnel	Overlay Tunnel statistics	N/A	Boolean: <ul style="list-style-type: none"> • 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 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 UnknownUnicastRestrain is the value of VSIUnUnicastRestrainDefault in the Base table of Data API.
AdminStatus	Administratively status	N/A	Enumeration: <ul style="list-style-type: none"> 1—Administratively up(default). 2—Administratively down. 	N/A
Dscp	DSCP value	N/A	Unsigned integer Value range: 0 to 63.	Support for this column depends on the device model.
ServiceClass	Service class value	N/A	Unsigned integer Value range: The value range varies by device model.	Support for this column depends on the device model. The maximum value for this column is defined in the Base table of Data API.

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: <ul style="list-style-type: none"> true—Enabled. false—Disabled(default). 	N/A
PWType	PW type for PWs	N/A	Enumeration: <ul style="list-style-type: none"> 1—VLAN(default). 2—Ethernet. 	N/A
SequencingBoth	Sequencing for both incoming and outgoing packets	N/A	Boolean: <ul style="list-style-type: none"> 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>
    </SRV>
  </SRVs>
</L2VPN>

```



```

    <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	<p>This table supports only layer 2 Ethernet interfaces. You must follow these restrictions:</p> <ul style="list-style-type: none"> 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	<p>Enumeration:</p> <ul style="list-style-type: none"> • 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 	<p>Can not be modified after creation.</p> <p>You must and only need specify this column when you remove or delete the encapsulation, and the SVlanRange column or CVlanRange column is ignored.</p>
SVlanRange	A outer VLAN ID or a list of outer VLAN IDs	N/A	<p>Number string.</p> <p>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.</p> <p>The string must not end with a comma or hyphen, or include any whitespace characters.</p>	<p>Example: 1,2,3,5-8,10-20.</p> <p>The value must be different in different VLAN ID ranges.</p> <p>If this column is required, you must also specify the Encap column.</p>
CVlanRange	A inner VLAN ID or a list of inner VLAN IDs	N/A	<p>Number string.</p> <p>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.</p> <p>The string must not end with a comma or hyphen, or include any whitespace characters.</p>	<p>Example: 1,2,3,5-8,10-20.</p> <p>The value must be different in different VLAN ID ranges.</p> <p>If this column is required, you must also specify the Encap column.</p>

L2VPN/ACs

This table contains information about ACs.

XML structure

```

<L2VPN>
  <ACs>
    <AC>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
      <VsiName></VsiName>
      <AccessMode></AccessMode>
    </AC>
  </ACs>
</L2VPN>

```



```

    <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> true—Enabled (default). false—Disabled. 	N/A
---------------------	----------------------------------------------	-----	---------------------------------------------------------------------------------------------------------------------------	-----

L2VPN/VSIIPv4Subnets

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/VSIIPv6Subnets

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. <ul style="list-style-type: none">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: <ul style="list-style-type: none">truefalse (default)	N/A
Dci	Whether Dci is enabled	N/A	Boolean: <ul style="list-style-type: none">true	Support for this column depends

			<ul style="list-style-type: none"> false (default) 	on the device model.
VxlanOverVxlan	Whether VXLAN over VXLAN is enabled	N/A	Boolean: <ul style="list-style-type: none"> true false (default) 	Support for this column depends on the device model.
MacBasedAc	Whether mac based ac is enable	N/A	Boolean: <ul style="list-style-type: none"> 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	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: <ul style="list-style-type: none"> RewriteType SvlanID CvlanID Symmetric 	RewriteType must be specified.
Outbound	Outbound direction of packets	N/A	Members include: <ul style="list-style-type: none"> RewriteType SvlanID CvlanID 	The members of RewriteType must be specified.
RewriteType	Rewrite type	N/A	Unsigned integer. Value: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
    <SupportVSIBroadcastRestrained></SupportVSIBroadcastRestrained>
    <VSIBroadcastRestrainedDefault></VSIBroadcastRestrainedDefault>
    <SupportVSIMulticastRestrained></SupportVSIMulticastRestrained>
    <VSIMulticastRestrainedDefault></VSIMulticastRestrainedDefault>
    <SupportVSIUnicastRestrained></SupportVSIUnicastRestrained>
    <VSIUnicastRestrainedDefault></VSIUnicastRestrainedDefault>
    <SupportACBandwidth></SupportACBandwidth>
    <SupportVxlanOverVxlan></SupportVxlanOverVxlan>
    <SupportDscp></SupportDscp>
    <SupportServiceClass></SupportServiceClass>
    <ServiceClassValueMax></ServiceClassValueMax>
    <StatisticsInterval></StatisticsInterval>
    <SupportOverlayTunnelStatistics></SupportOverlayTunnelStatistics>
  </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: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
SupportVsiInterface	Whether VSI interface feature is supported	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Supported. false—Not supported. 	N/A
SupportControlWord	Whether control word feature is supported	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported. 	N/A
SupportVPLSHubSpoke	Whether VPLS hub-spoke feature is supported	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported. 	N/A
SupportVPLSMACLimit	Whether VPLS MAC limit feature is supported	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Supported. false—Not supported. 	N/A
SupportVPWSDualReceive	Whether VPWS dualreceive feature is supported	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported. 	N/A
SupportVSIStatistics	Whether VSI statistics feature is	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported. 	N/A

	supported			
SupportPWStatistics	Whether PW statistics feature is supported	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported. 	N/A
SupportVSIBandwidth	Whether VSI bandwidth feature is supported	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported. 	N/A
SupportVSIBroadcastRestrain	Whether VSI broadcast suppression feature is supported	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported. 	N/A
VSIBroadcastRestrainDefault	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Supported. false—Not supported. 	N/A
SupportVxlanOverVxlan	Whether VXLAN over VXLAN is supported	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported. 	N/A
SupportDscp	Whether the DSCP feature is supported.	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported. 	N/A
SupportServ	Whether the	N/A	Boolean:	N/A

ceClass	service class feature is supported.		<ul style="list-style-type: none"> true—Supported. false—Not supported. 	
ServiceClass ValueMax	Maximum service class value.	N/A	Unsigned integer.	N/A
StatisticsInterval	Interval for collecting packets statistics	N/A	Unsigned integer Value range: 30 to 65535. Unit: seconds.	N/A
SupportOverlayTunnelStatistics	Whether the Overlay Tunnel statistics feature is supported	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
Untagged	Support for matching untagged packets.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
Tagged	Support for matching all tagged packets.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
SvlanId	Support for matching packets by a SVLAN ID.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
SvlanIdOnlyTagged	Support for matching only tagged packets by a SVLAN ID.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
SvlanIdCvlanId	Support for matching packets by a SVLAN ID and a CVLAN ID.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
CvlanId	Support for matching packets by a CVLAN ID.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
CvlanList	Support for matching packets by CVLAN ID list.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
SvlanIdCvlanList	Support for matching packets by a SVLAN ID and CVLAN ID list.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
SvlanIdCvlanAll	Support for matching packets by a SVLAN ID and all CVLAN ID.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
SvlanList	Support for matching packets by SVLAN ID list	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
SvlanListOnlyTagged	Support for matching only tagged packets by SVLAN ID list.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
SvlanListCvlanList	Support for matching packets by SVLAN ID list and CVLAN ID list.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A

L2VPN/VSIs

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>
      <StatisticsOverlayTunnel></StatisticsOverlayTunnel>
      <Description></Description>
      <Bandwidth></Bandwidth>
      <BroadcastRestrain></BroadcastRestrain>
      <MulticastRestrain></MulticastRestrain>
      <UnknownUnicastRestrain></UnknownUnicastRestrain>
      <AdminStatus></AdminStatus>
      <Status></Status>
      <LocMacCnt></LocMacCnt>
      <Dscp></Dscp>
      <ServiceClass></ServiceClass>
    </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
MacLearning	MAC address learning	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
MacLimit	MAC table limit	N/A	Unsigned integer. Value range: The value range varies by device model.	Support for this column depends on the device model.
Flooding	Flooding for all destination-unknown frames	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
FloodType	Flood type	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled 	N/A
StatisticsOverlayTunnel	Overlay Tunnel statistics	N/A	Boolean: <ul style="list-style-type: none"> 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	N/A

			Value range: 64 to 4194303 kbps.	
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: <ul style="list-style-type: none"> 1—Administratively up. 2—Administratively down. 	N/A
Status	VSI status	N/A	Enumeration: <ul style="list-style-type: none"> 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.
Dscp	DSCP value	N/A	Unsigned integer. Value range: 0-63.	Support for this column depends on the device
ServiceClass	Service class value	N/A	Unsigned integer. Value range: The value range varies by device model.	Support for this column depends on the device

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: <ul style="list-style-type: none">true—Enabled.false—Disabled.	N/A
PWType	PW type for ACs	N/A	Enumeration: <ul style="list-style-type: none">1—VLAN.2—Ethernet.	N/A
SequencingBoth	Sequencing for both incoming and outgoing packets	N/A	Boolean: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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	Example: 1,2,3,5-8,10-20. The column is available when the value of Encap is SvlanId or

			<p>VLANs of a range, and the end VLAN ID must be larger than the start VLAN ID.</p> <p>The string must not end with a comma or hyphen, or include any whitespace characters.</p>	<p>SvlanIdOnlyTagged or SvlanList or SvlanListOnlyTagged or SvlanIdCvlanId or SvlanIdCvlanList or SvlanIdCvlanAll.</p>
CVlanRange	A inner VLAN ID or a list of inner VLAN IDs	N/A	<p>Number string.</p> <p>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.</p> <p>The string must not end with a comma or hyphen, or include any whitespace characters.</p>	<p>Example: 1,2,3,5-8,10-20.</p> <p>The column is available when the value of Encap is CvlanId or CvlanList or SvlanIdCvlanId or SvlanIdCvlanList or SvlanIdCvlanAll.</p>

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: <ul style="list-style-type: none"> 1—Vlan. 2—Ethernet. 	N/A
Hub	Hub spoke attribute for the Link.	N/A	Boolean: <ul style="list-style-type: none"> true—Hub. false—Spoke. 	Only exists when the VSI supports hub-spoke capability.
Statistics	Whether statistics function is enabled	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	N/A	Unsigned integer64.	N/A

	inbound bytes		Value range: 0 to $2^{64} - 1$.	
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: <ul style="list-style-type: none"> 1—VLAN. 2—Ethernet. 	N/A
Hub	Hub spoke attribute for the Link.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
L3VNI	L3 VNI for the tenant	N/A	Unsigned integer	N/A
ArpSendRate	ARP packet sending rate limit	N/A	Unsigned integer.	0 for no limit.
PrefixRouteGenerate	Whether EVPN route advertisement is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled (default). false—Disabled. 	N/A

L2VPN/VSIIPv4Subnets

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/VSIIPv6Subnets

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: <ul style="list-style-type: none">truefalse	N/A
Dci	Whether Dci is enabled	N/A	Boolean: <ul style="list-style-type: none">truefalse	N/A
VxlanOverVxlan	Whether VXLAN over VXLAN is enabled	N/A	Boolean: <ul style="list-style-type: none">truefalse	N/A
MacBasedAc	Whether mac based ac is enable	N/A	Boolean: <ul style="list-style-type: none">truefalse (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: <ul style="list-style-type: none"> • RewriteType • SvlanID • CvlanID • Symmetric 	NA
Outbound	Outbound direction of packets	N/A	Members include: <ul style="list-style-type: none"> • RewriteType • SvlanID • CvlanID 	N/A
RewriteType	Rewrite type	N/A	Unsigned integer. Value: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A.

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L2VPN

L2VPN/BASE

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Parameters don't exist.	When the spare board is not prepared,the parameters don't exist.

L2VPN/VSF

Message	Explanation
When set is operated, the set value doesn't meet the requirements of the module.	When set is operated, the set value doesn't meet the requirements of the module.
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Executed the set commamd, the variable exists but can not be modified.	Executing the set commamd, the variable exists but can not be modified.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.

L2VPN/PWCLASSES

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
Parameters don't exist.	The MOR value of the column doesn't exist.
Executed the set commamd, the variable exists but can not be modified.	1. Edit is not allowed. 2.No support for message sorting,the variable can't be modified.
Failure to apply for resources.	Failure to apply for resources.Such as failure in memory applications.

L2VPN/SRV

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
No operation permissions.	No RBAC permissions.
Executed the set commamd, the variable exists but can not be modified.	1.Non-two-layer interface has no AC data. 2.The current interface is not a Ethernet interface and aggregate interface. 3.Encap does not support.
Parameters don't exist.	Invailld service instance ID.
Configration information does not meet module requirements.	Configuration information does not meet module requirements.

L2VPN/L3INTERFACES

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
No operation permissions.	No RBAC permissions.
Executed the set commamd, the variable exists but can not be modified.	1.Interface does not support L3AC. 2.Hub-spoke function is not supported. 3.The user has the attribute column label,but there is no Vsiname tag at the same time.
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.	Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.For example,set MTU=1 in the Ethernet SNAO format.
Parameters don't exist.	Delete failure due to unconfigured AC.

L2VPN/AC

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.

Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
No operation permissions.	No RBAC permissions.
Executed the set commamd, the variable exists but can not be modified.	1.Non-two-layer interface has no AC data. 2.The current interface is not a Ethernet interface and aggregate interface. 3.Interface does not support AC statistics. 4.Interface does not support AC bandwidth. 5.Hub-spoke function is not supported.
When you delete the operation,you bring the AC mode or hub tag,but there is no VSI name tag.	When you delete the operation,you bring the AC mode or hub tag,but there is no VSI name tag.

L2VPN/FLOODINGMAC

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.

L2VPN/LOCALMAC

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
Parameters don't exist.	VSI index doesn't exist..

L2VPN/CLEARVSISTATISTICS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.

Executed the set command, the variable exists but can not be modified.	Interface does not support VSI statistics.
------------------------------------------------------------------------	--------------------------------------------

L2VPN/CLEARALLVSISTATISTICS

Message	Explanation
Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.	Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.
Executed the set command, the variable exists but can not be modified.	Interface does not support VSI statistics.

L2VPN/VSISTATISTICS

Message	Explanation
Access a no-access node, communication failure.	1. Access a no-access node. 2. Send/receive data timeout. 3. A failure to initiate a connect to a server.
Executed the set command, the variable exists but can not be modified.	Invalid configuration messages.

L2VPN/AVAILABLE INTERFACE ID

Message	Explanation
Access a no-access node, communication failure.	1. Access a no-access node. 2. Send/receive data timeout. 3. A failure to initiate a connect to a server.

L2VPN/INTERFACE ID

Message	Explanation
Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.	Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.
Access a no-access node, communication failure.	1. Access a no-access node. 2. Send/receive data timeout. 3. A failure to initiate a connect to a server.
No operation permissions.	No RBAC permissions.
When set is operated, the set value does not meet the requirements of the module.	Unauthorized VSIFID.
Parameters don't exist.	1. VSIFID doesn't exist. 2. Invalid VXLAN-ID.

L2VPN/VSIIPV4SUBNETS

Message	Explanation
Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.	Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.
Access a no-access node, communication failure.	1. Access a no-access node. 2. Send/receive data timeout. 3. A failure to initiate a connect to a server.
Executed the set command, the variable exists but can not be modified.	Vsiif is not supported.
When set is operated, the set value does not meet the requirements of the module.	Invalid subnet address.

L2VPN/VSIIPV6SUBNETS

Message	Explanation
Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.	Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.
Access a no-access node, communication failure.	1. Access a no-access node. 2. Send/receive data timeout. 3. A failure to initiate a connect to a server.
Executed the set command, the variable exists but can not be modified.	Invalid VSI index.
When set is operated, the set value does not meet the requirements of the module.	Invalid subnet address.

L2VPN/CLEARALLPWSTATISTICS

Message	Explanation
Executed the set command, the variable exists but can not be modified.	PW statistics are not supported.

L2VPN/CLEARVSIPWSTATISTICS

Message	Explanation
Access a no-access node, communication failure.	1. Access a no-access node. 2. Send/receive data timeout. 3. A failure to initiate a connect to a server.
Executed the set command, the variable exists but	PW statistics are not supported.

can not be modified.	
----------------------	--

L2VPN/CLEARVSIXCGSTATISTICS

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Executed the set commamd, the variable exists but can not be modified.	PW statistics are not supported.

L2VPN/CLEARVSIMACTAB

Message	Explanation
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.

L2VPN/IFCFG

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
No operation permissions.	No RBAC permissions.
Executed the set commamd, the variable exists but can not be modified.	1.Do not support Mac software learning. 2.The sub interface cannot configure the DCI.
Parameters don't exist.	The configuration of delete has a default value and doesn't allow delete.

L2VPN/CLEAR AC STATISTICS

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.

No operation permissions.	No RBAC permissions.
Executed the set command, the variable exists but can not be modified.	1.Non-two-layer interface has no AC data. 2.The current interface is not a Ethernet interface and aggregate interface. 3.Interface does not support AC statistics.
Parameters don't exist.	The instance number of the configured message does not exist.

L2VPN/CLEAR ALL AC STATISTICS

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Executed the set command, the variable exists but can not be modified.	Interface does not support AC statistics.

L2VPN/REWRITE

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Executed the set command, the variable exists but can not be modified.	1.Non-two-layer interfaces have no SRV data. 2.The current interface is not a stack interface. 3.SRV rewrite is not supported. 4.When there is a symmetric attribute,inbound can only be configured. 5.The property does not configure inbound or outbound. 6.The rewriting direction is not consistent with the configuration information. 7.Illegal labels. 8.Delete rows are not supported.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
No operation permissions.	No RBAC permissions.
Parameters don't exist.	The rewrite information of the specified object does not exist.
When set is operated, the set value does not meet the requirements of the module.	When set is operated, the set value does not meet the requirements of the module.

L2VPN/VBRECIDS

Message	Explanation
Invaile configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invaile configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
When <i>set</i> is operated, the set value does not meet the requirements of the module.	When <i>set</i> is operated, the set value does not meet the requirements of the module.

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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>

```

Table description

Item	Description
Feature name	L3vpn
Table name	L3vpnIf
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. <ul style="list-style-type: none">1—IPv4 unicast2—IPv6 unicast3—VPN (currently not supported)4—EVPN	N/A
RTType	RT type.	Index	Enumeration. <ul style="list-style-type: none">1—Import2—Export	N/A
RTEntry	Route target.	Index	String. Length: 3 to 21 characters. <ul style="list-style-type: none">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
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>
      <VRF></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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <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

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. <ul style="list-style-type: none">1—IPv4 unicast2—IPv6 unicast3—VPN (currently not supported)4—EVPN	N/A
RTType	RT type.	Index	Enumeration. <ul style="list-style-type: none">1—Import2—Export	N/A
RTEntry	Route target.	Index	String. Length: 3 to 21 characters. <ul style="list-style-type: none">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>
```


</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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L3vpn

L3vpn/L3vpnVRF

Message	Explanation
The VRF instance is being deleted. 该VRF正在删除中。	The specified VRF is being deleted, when replacing or deleting it.
The VRF instance already has an RD. 该VRF已经配置RD。	Configuration already exists, when set new configuration.
RouteThreshold and SimplyAlert can't both be null. 请输入RouteThreshold或者SimplyAlert选项。	Invalid configuration.
Can't connect to an L3VPN process. 连接不上L3VPN进程。	Operation failed when L3VPN process has not been started.
IPv4 route limit is exceeded. IPv4路由门限超过最大值。	Invalid configuration, please modify configuration under the guidance.
IPv6 route limit is exceeded. IPv6路由门限超过最大值。	Invalid configuration, please modify configuration under the guidance.
The IPv4 route limit cannot be 0. IPv4路由门限不能为0。	Invalid configuration, please modify configuration under the guidance.
The IPv6 route limit cannot be 0. IPv6路由门限不能为0。	Invalid configuration, please modify configuration under the guidance.
Route distinguisher format error. 路由标识格式错误。	Invalid configuration, please modify configuration under the guidance.

L3vpn/L3vpnIf

Message	Explanation
The interface is already bound to another VRF instance. 该接口已经和其他VRF绑定。	The specified configuration is already existed, when creating a new configuration.
The interface doesn't exist. 接口不存在。	The specified interface is not existed.
Failed to allocate memory. 内存不足。	No enough resource, please check your device.
Configurations on the interface ware already removed. 接口下配置已删除。	When configurations take effect, some other configurations on the interface will be removed.
The interface is not supported. 接口不支持。	The specified interface is not supported.

L3vpn/L3vpnRT

Message	Explanation
NULL	NULL

L3vpn/L3vpnPeer

Message	Explanation
The VPN peer does not exist. VPN peer不存在。	The specified VPN peer does not exist, when deleting or removing.
The VPN peer ID cannot be modified. VPN peer ID不能被修改。	The specified VPN peer ID cannot be modified.
The VPN peer ID has been used. VPN peer ID已经被使用。	The specified VPN peer ID has been used.
VPN peer ID and profile-name do not have default value, must be empty. VPN peer ID和profile-name无默认值，必须下刷空列。	The specified configuration must be empty, when deleting or removing.

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Table description	4
Columns	4

LAGG

LAGG/Base

This table contains global LAGG information.

XML structure

```
<LAGG>
  <Base>
    <SystemPriority></SystemPriority>
    <LoadSharingMode></LoadSharingMode>
    <AutoAggregationEnable></AutoAggregationEnable>
  </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.
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.
AutoAggregationEnable	Automatic aggregation.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable(default).

LAGG/Groups

This table contains information about link aggregation groups.

XML structure

```

<LAGG>
  <LAGGGroups>
    <LAGGGroup>
      <GroupId></GroupId>
      <LinkMode></LinkMode>
      <LacpEdgeEnable></LacpEdgeEnable>
      <LoadSharingMode></LoadSharingMode>
      <IrfSelectMode></IrfSelectMode>
    </LAGGGroup>
  </LAGGGroups>
</LAGG>

```

Table description

Item	Description
Feature name	LAGG
Table name	LAGGGroups
Table type	Multi-instance table
Row name	LAGGGroup
Restrictions	None
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Static (default). 2—Dynamic. Not configured for blade aggregation group.
LacpEdgeEnable	Edge aggregate interface feature	N/A	Boolean: <ul style="list-style-type: none"> 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 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 . Not configured for S-channel bundle group.
IrfSelectMode	Irf device select mode	N/A	Enumeration: <ul style="list-style-type: none"> 0—None (default). 1—Master-first. 2—Bandwidth-first.

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: <ul style="list-style-type: none">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.

LacpMode	LACP mode of a member port	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> • 1—Active (default). • 2—Passive.
LacpShortPeriodEnable	LACP short period function	N/A	<p>Boolean:</p> <ul style="list-style-type: none"> • true—Enabled. • false—Disabled (default).
ActorPortPriority	Priority assigned to this local port	N/A	<p>Unsigned integer</p> <p>Value range: 0 to 65535</p> <p>Default: 32768.</p> <p>The smaller the value, the higher the system LACP priority.</p>

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XML structure	2
Table description	2
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LAGG/Members	4
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>
    <AutoAggregationEnable></AutoAggregationEnable>
  </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.
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.
AutoAggregationEnable	Automatic aggregation	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.

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>
      <IrfSelectMode></IrfSelectMode>
    </LAGGGroup>
  </LAGGGroups>
</LAGG>

```

Table description

Item	Description
Feature name	LAGG
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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
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.
IrfSelectMode	Irf device select mode	N/A	Enumeration: <ul style="list-style-type: none"> • 0—None. • 1—Master-first. • 2—Bandwidth-first.

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>
      <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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Selected. 2—Unselected. 3—Individual.
UnSelectedReason	Unselected reason of a member port	N/A	Enumeration: <ul style="list-style-type: none"> 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.

			<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true—Enabled. • false—Disabled.
LacpMode	LACP mode of a member port	N/A	Enumeration: <ul style="list-style-type: none"> • 1—Active. • 2—Passive.
LacpShortPeriodEnable	LACP short period function	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled. • false—Disabled.
ActorPortPriority	The priority assigned to this port by the Actor	N/A	Unsigned integer Value range: 0 to 65535 The smaller the value, the higher the system LACP priority.
ActorState	The Actor's state variables for the port	N/A	Encoded as individual bits within a single octet <ul style="list-style-type: none"> • 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

			<p>disabled. Its value is otherwise TRUE (encoded as a 1).</p> <ul style="list-style-type: none"> • 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.
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	<p>Unsigned integer</p> <p>Value eange: 0 to 65535</p> <p>The smaller the value, the higher the system LACP priority.</p>
PartnerPortPriority	The priority assigned to this port by the Partner	N/A	<p>Unsigned integer</p> <p>Value eange: 0 to 65535</p> <p>The smaller the value, the higher the system LACP priority.</p>
PartnerState	The Partner's state variables for the port	N/A	<p>Encoded as individual bits within a single octet.</p> <p>Encoded meaning in every bits relate to ActorState.</p>
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.

Contents

LAGG1

LAGG/Groups1

LAGG/Members1

LAGG

LAGG/Groups

Message	Explanation
The link aggregation group doesn't exist. 指定的聚合组不存在。	The link aggregation group doesn't exist. 指定的聚合组不存在。
Failed to create the link aggregation group. 聚合组创建失败。	Failed to create the link aggregation group. 聚合组创建失败。
Failed to set the hash key mode, because the mode is not supported. 设置负载分担模式失败，因为设备不支持指定的模式。	Failed to set the hash key mode, because the mode is not supported. 设置负载分担模式失败，因为设备不支持指定的模式。
The load-sharing mode of flexible can not be configured with others. 负载分担flexible模式不能和其他模式同时配置	The load-sharing mode of flexible can not be configured with others. 负载分担flexible模式不能和其他模式同时配置
The load-sharing mode of per-packet can not be configured with others. 负载分担per-packet模式不能和其他模式同时配置	The load-sharing mode of per-packet can not be configured with others. 负载分担per-packet模式不能和其他模式同时配置

LAGG/Members

Message	Explanation
%s has been assigned to another aggregation group. %s已经加入其他聚合组。	%s has been assigned to another aggregation group. %s已经加入其他聚合组。
Can't assign %s to a link aggregation group because the interface has subinterfaces.. 加入聚合组失败，因为该端口包含子接口。	Can't assign %s to a link aggregation group because the interface has subinterfaces.. 加入聚合组失败，因为该端口包含子接口。
Can't assign the L2VPN-enabled interface %s to a link aggregation group. 加入聚合组失败，因为该端使能了L2VPN业务	Can't assign the L2VPN-enabled interface %s to a link aggregation group. 加入聚合组失败，因为该端使能了L2VPN业务
Can't assign %s to a link aggregation group because the interface is enabled with port security, MAC authentication, or 802.1X authentication. 加入聚合组失败，因为该端口使能了端口安全、MAC认证或者802.1X认证。	Can't assign %s to a link aggregation group because the interface is enabled with port security, MAC authentication, or 802.1X authentication. 加入聚合组失败，因为该端口使能了端口安全、MAC认证或者802.1X认证。
Can't assign the subinterface %s to a link aggregation group. 加入聚合组失败，因为该端口是子接口。	Can't assign the subinterface %s to a link aggregation group. 加入聚合组失败，因为该端口是子接口。
Can't assign %s to a link aggregation group because the interface is shared by multiple contexts.	Can't assign %s to a link aggregation group because the interface is shared by multiple contexts.

加入聚合组失败，因为该端口已被多个context共享。	加入聚合组失败，因为该端口已被多个context共享。
<p>Can't assign %s to a link aggregation group because the interface is shared by multiple contexts.'t assign the port to the aggregation group because its attribute configurations are different than the aggregate interface.</p> <p>接口上存在的属性类配置和聚合接口不同，该接口不能加入聚合组。</p>	<p>Can't assign %s to a link aggregation group because the interface is shared by multiple contexts.'t assign the port to the aggregation group because its attribute configurations are different than the aggregate interface.</p> <p>接口上存在的属性类配置和聚合接口不同，该接口不能加入聚合组。</p>

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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. <ul style="list-style-type: none">Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified virtual server.	N/A	This column must be empty.	<ul style="list-style-type: none">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.	<ul style="list-style-type: none">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. <ul style="list-style-type: none">Length: 1 to 63 characters.	N/A
Clear	Action of clearing the specified real server.	N/A	This column must be empty.	<ul style="list-style-type: none">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.	<ul style="list-style-type: none">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. <ul style="list-style-type: none">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	Dellpv6Proximities
Table type	Multi-instance table
Row name	Dellpv6Proximity
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. 8—Waiting. 	N/A
DropType	Drop reason of the result	N/A	Enumeration: <ul style="list-style-type: none"> 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. 11—Server farm busy. 12—Queue overflow. 	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.

Column name	Column description	Column type	Data type and restrictions	Remarks
Link	Name of the link.	N/A	String, case-insensitive. Length: 0 to 63 characters.	The null string indicates the label is not configured.
ScheduleType	The method of selecting real server.	N/A	Enumeration: <ul style="list-style-type: none"> 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>

```

Response 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>

```



```

    <VirtualServer></VirtualServer>
    <ZoneType></ZoneType>
    <Class></Class>
    <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:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			0 to 255.	
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

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: <ul style="list-style-type: none"> 0—Class. 1—Default class. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—Default server farm. 3—Default link group. 	
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: <ul style="list-style-type: none"> 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. 8—Waiting. 	N/A
DropType	Drop reason of the result	N/A	Enumeration: <ul style="list-style-type: none"> 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. 11—Server farm busy. 12—Queue overflow. 	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.	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.
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.
ScheduleType	The method of selecting real server.	N/A	Enumeration: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none">Length: 0 to 31 characters.	The null string indicates public network.
AF	Address family.	Index	Enumeration: <ul style="list-style-type: none">1—IPv4.2—IPv6.3—All.	N/A
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.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> Length: 1 to 63 characters. 	
Clear	Action of clearing the specified link.	N/A	This column must be empty.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> N/A

LB/ClearDNSListenerStats

This table is used to clear the statistics of the DNS listener.

XML structure

```
<LB>
  <ClearDNSListenerStats>
    <ClearDNSListenerStat>
      <Name></Name>
    </ClearDNSListenerStat>
  </ClearDNSListenerStats>
</LB>
```



```

    <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. <ul style="list-style-type: none"> Length: 1 to 63 characters. 	N/A
Clear	Action of clearing the specified DNS listener.	N/A	This column must be empty.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> Length: 1 to 63 characters. 	N/A
Clear	Action of clearing the specified DNS proxy.	N/A	This column must be empty.	<ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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. <ul style="list-style-type: none">Length: 1 to 63 characters.	<ul style="list-style-type: none">
Clear	Action of clearing rule match counter statistics.	N/A	This column must be empty.	<ul style="list-style-type: none">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. <ul style="list-style-type: none">Length: 0 to 31 characters.	The null string indicates the public network.
Ipv4Address	IPv4 address.	Index	String. <ul style="list-style-type: none">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. <ul style="list-style-type: none">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. <ul style="list-style-type: none">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.	<ul style="list-style-type: none"> 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>
      <TCPParameterClientSide></TCPParameterClientSide>
      <TCPParameterServerSide></TCPParameterServerSide>
      <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>
      <StickySynType></StickySynType>
      <RedundancyGroup></RedundancyGroup>
      <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: <ul style="list-style-type: none"> 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	Port number.	N/A	Unsigned integer. Value range: 1 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			65535. By default, the value is 80.	
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 profile whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPParameter	Parameter profile whose type is TCP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
HTTPParameter	Parameter profile whose type is HTTP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column is conflicted with TCPParameterClientSide/TCPParameterServerSide column, they cannot be configured both
TCPParameterClientSide	Client-side tcp parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column is conflicted with TCPParameter column, they cannot be configured both.
TCPParameterServerSide	Server-side tcp parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column is conflicted with TCPParameter column, they cannot be configured both.
OneConnectParameter	Parameter profile 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 $2^{32}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			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 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 limit.	N/A
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Disable (default). 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 1—Enable. 	
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 indicates no outbound limit.	N/A
BusyProtectEnable	Enable link protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Using LB bandwidth statistics (default). 1—Using interface bandwidth statistics. 	N/A
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	This column can only be configured when the Type is FASTHTTP (1).
StickySynEnable	Enable sticky synchronization.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
StickySynType	Sticky synchronization type.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Synchronize in failover group (default). 1—Synchronize global. 	This column can only be configured when the StickySynEnable is Enable (1).
RedundancyGroup	Name of redundancy group for virtual server flow-redirect.	N/A	String, case-insensitive. Length: 1 to 15 characters.	N/A
HTTPCompr	Parameter	N/A	String,	This column can only be configured

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionParameter	profile whose type is HTTP compression for the virtual server.		case-insensitive. Length: 1 to 63 characters.	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: <ul style="list-style-type: none"> 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>
      <TCPAppParameter></TCPAppParameter>
      <SSLServerPolicy></SSLServerPolicy>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <UDPPerPacket></UDPPerPacket>

```



```

    <ServiceEnable></ServiceEnable>
    <RateLimitInBandwidth></RateLimitInBandwidth>
    <RateLimitOutBandwidth></RateLimitOutBandwidth>
    <BusyProtectEnable></BusyProtectEnable>
    <RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
    <ConnSynEnable></ConnSynEnable>
    <StickySynEnable></StickySynEnable>
    <StickySynType></StickySynType>
    <RedundancyGroup></RedundancyGroup>
    <LimitPolicy></LimitPolicy>
    <RouteAdvertisementEnable></RouteAdvertisementEnable>
    <ApplicationMode></ApplicationMode>
  </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: <ul style="list-style-type: none"> 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.	The null string indicates a public network.

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, no VRF is specified.	
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	Port number.	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 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	This column cannot be configured if the default server farm is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
DefaultLink Group	Name of the default link group.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
BackupLink Group	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 profile whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPParameter	Parameter profile 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).
TCPAppParameter	Parameter profile whose type is TCPApplication 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 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 link protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Using LB bandwidth statistics (default). 1—Using interface bandwidth statistics. 	N/A
ConnSyncEnable	Enable connection synchronization.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
StickySyncEnable	Enable sticky synchronization.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 1—Enable. 	
StickySynType	Sticky synchronization type.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Synchronize in failover group (default). 1—Synchronize global. 	This column can only be configured when the StickySynEnable is Enable (1).
Redundancy Group	Name of redundancy group for virtual server flow-redirect.	N/A	String, case-insensitive. Length: 1 to 15 characters.	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: <ul style="list-style-type: none"> 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>

```



```

<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	<p>Number string.</p> <p>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.</p> <p>The string cannot end with a comma or hyphen, or include any whitespace characters.</p> <p>Value range: 0 to 65535.</p> <p>By default, the value is 0.</p> <p>Items range: 1 to 8.</p>	<p>Example: 1,2,3,5-8,10-20.</p> <p>The item is permitted to incremental edit.</p>
DefaultServerFarm	Name of the default server farm.	N/A	<p>String, case-insensitive.</p> <p>Length: 1 to 63 characters.</p>	N/A
BackupServerFarm	Name of the backup server farm.	N/A	<p>String, case-insensitive.</p> <p>Length: 1 to 63 characters.</p>	This column cannot be configured if the default server farm is not configured.
StickyGroup	Name of the sticky group.	N/A	<p>String, case-insensitive.</p> <p>Length: 1 to 63 characters.</p>	This column cannot be configured if the default server farm is not configured.
Policy	Name of the policy.	N/A	<p>String, case-insensitive.</p> <p>Length: 1 to 63 characters.</p>	N/A
IPParameter	Parameter profile whose type is IP for the virtual server.	N/A	<p>String, case-insensitive.</p> <p>Length: 1 to 63 characters.</p>	N/A
MaxConnectionLimit	Maximum connection limit.	N/A	<p>Unsigned integer.</p> <p>Value range: 0 to $2^{32}-1$.</p> <p>By default, the value is 0, which indicates no limit.</p>	N/A
RateLimitConnection	Maximum connection rate limit.	N/A	<p>Unsigned integer.</p> <p>Value range: 0 to $2^{32}-1$.</p> <p>Unit: cps.</p> <p>By default, the value</p>	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			is 0, which indicates 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 link protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Using LB bandwidth statistics (default). 1—Using interface bandwidth statistics. 	N/A
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
StickySynEnable	Enable sticky	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
able	synchronization.		<ul style="list-style-type: none"> 0—Disable (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: <ul style="list-style-type: none"> 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>
      <StickySynType></StickySynType>
      <RedundancyGroup></RedundancyGroup>

```



```

    <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 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: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
PortNumber	Port number.	N/A	Unsigned integer. Value range: 0 to 65535. By default, the value is 5060.	N/A
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 profile 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	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 	This column can only be configured when the Type is UDP (2).

Column name	Column description	Column type	Data type and restrictions	Remarks
	balancing.		<ul style="list-style-type: none"> 1—Enable. 	
ServiceEnable	Enable the virtual server.	N/A	Enumeration: <ul style="list-style-type: none"> 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 link protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics which is used for bandwidth protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Using LB bandwidth statistics (default). 1—Using interface bandwidth statistics. 	N/A
ConnSynEnable	Enable the connection synchronization.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
StickySynEnable	Enable the sticky synchronization.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
StickySynType	Sticky synchronization type.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Synchronize in failover group (default). 1—Synchronize global. 	This column can only be configured when the StickySynEnable is Enable (1).
RedundancyGroup	Name of redundancy group for virtual server	N/A	String, case-insensitive. Length: 1 to 15	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	flow-redirect.		characters.	
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: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A

LB/MySQLVirtualServers

This table contains information about MySQL virtual servers.

XML structure

```

<LB>
  <MySQLVirtualServers>
    <MySQLVirtualServer>
      <Name></Name>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <TCPParameter></TCPParameter>
      <TCPParameterClientSide></TCPParameterClientSide>
      <TCPParameterServerSide></TCPParameterServerSide>
      <MySQLParameter></MySQLParameter>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <ServiceEnable></ServiceEnable>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <BusyProtectEnable></BusyProtectEnable>
      <RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
      <StickySynEnable></StickySynEnable>
      <StickySyncType></StickySyncType>
      <LimitPolicy></LimitPolicy>
      <RouteAdvertisementEnable></RouteAdvertisementEnable>

```



```

<Version></Version>
<ReadServerFarm></ReadServerFarm>
<ReadStickyGroup></ReadStickyGroup>
<WriteServerFarm></WriteServerFarm>
<WriteStickyGroup></WriteStickyGroup>
<RedundancyGroup></RedundancyGroup>
<UserList>
  <UserName></UserName>
  <Password></Password>
  <Type></Type>
</UserList>
</MySQLVirtualServer>
</MySQLVirtualServers>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	MySQLVirtualServers
Table type	Multi-instance table
Row name	MySQLVirtualServer
Restrictions	Only MySQL 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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	Port number.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 3306.	N/A
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 profile whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPParameter	Parameter profile whose type is TCP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPParameterClientSide		N/A		N/A
TCPParameterServerSide		N/A		N/A
MySQLParameter	Parameter profile whose type is MySQL 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	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			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
ServiceEnable	Enable the virtual server.	N/A	Enumeration: <ul style="list-style-type: none"> 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 link protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Using LB bandwidth statistics (default). 1—Using interface bandwidth statistics. 	N/A
StickySynEnable	Enable sticky entry synchronization	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	n.		<ul style="list-style-type: none"> 1—Enable. 	
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
StickySyncType		N/A		N/A
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
Version	MySQL version info.	N/A	Enumeration: <ul style="list-style-type: none"> 0—5.0. 1—5.1. 2—5.5. 3—5.6. 4—5.7. By default, 3 is configured.	N/A
Redundancy Group		N/A	String, Length: 1 to 15 Name of the redundancy group	N/A
UserList	MySQL database user list.	Data structure	Members include: <ul style="list-style-type: none"> UserName. Password. 	Max user count is 100.
UserName	MySQL database login username.	N/A	String, Length: 1 to 63 characters.	N/A
PassWord	MySQL database login password.	N/A	String, Length: 1 to 127 characters.	This column cannot be configured if the username is not configured or the password is obtained from the CLI.
Type	Password type.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Simple. 1—No password. 	This column cannot be configured if the password is obtained from the CLI.
ReadServer Farm	MySQL read server farm name for read/write separation	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
ReadSticky Group	Name of the sticky group for read server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the read server farm is not configured.
WriteServer Farm	MySQL write server farm	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	name for read/write separation		Length: 1 to 63 characters.	
WriteSticky Group	Name of the sticky group for write server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the write server farm is not configured.

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>
      <RateLimitHTTPRequest></RateLimitHTTPRequest>
      <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>

```



```

</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.	A larger value means a higher priority.

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, the value is 4.	
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: <ul style="list-style-type: none"> 0—Not configured (default). 1—Shutdown. 2—Slow-shutdown. 	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
RateLimitHTTPRequest	Maximum HTTP request rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: qps. By default, the value is 0, which indicates the rate is not 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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
BandwidthBusyRatio	Total bandwidth busy ratio.	N/A	Unsigned integer. Value range: 1 to 100. By default, the value is 70.	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	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
BandwidthBusyRecoverRatio	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. 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, case-insensitive. Length: 0 to 31 characters.	N/A
InheritVPN	Inherit the VPN of virtual server	N/A	Enumeration: <ul style="list-style-type: none"> 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>
      <NQADefaultPortEnable></NQADefaultPortEnable>
    </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 for the real server.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
NQADefaultPortEnable	Enable detection using the default port of the NQA template.	N/A	Enumeration: <ul style="list-style-type: none">0—Disable (default).1—Enable.	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>
    <ProximityEnable></ProximityEnable>
    <Offset></Offset>
    <Length></Length>
    <Start></Start>
    <End></End>
    <BusyAction></BusyAction>
    <QueueLength></QueueLength>
    <QueueTimeout></QueueTimeout>
    <RSTProbe></RSTProbe>
    <ZeroWindowProbe></ZeroWindowProbe>
    <RecoverTimeInterval></RecoverTimeInterval>
    <HTTPPassiveProbe></HTTPPassiveProbe>    </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	N/A	Enumeration:	

Column name	Column description	Column type	Data type and restrictions	Remarks
	LB to select a real server to serve a client request.		<ul style="list-style-type: none"> 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—Least time. 13—Dynamic round-robin. 14—Hash HTTP. 15—CARP HTTP. 16—CARP source address. 17—CARP source port. 18—CARP destination address. 19—Least-connection member. 20—Least time member. 	N/A
HashIpv4PrefixLength	Length of IPv4 address mask for hash or CARP 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 or CARP source address (3/16), hash source port (4/17) and hash destination address (5/18).
HashIpv6PrefixLength	Length of IPv6 address prefix for hash or CARP 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 or CARP source address (3/16), hash source port (4/17) and hash destination address (5/18).
SelectServerMinNumber	Minimum number of the active real	N/A	Unsigned integer. Value range: 1 to	If one of SelectServerMinNumber and SelectServerMaxNumber is not configured, the other cannot be

Column name	Column description	Column type	Data type and restrictions	Remarks
	server in the server farm.		1000. By default, the column is not configured which indicates only the real server of highest priority can be dispatched.	configured. The value of SelectServerMaxNumber must be greater or equal than SelectServerMinNumber.
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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		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
	main server farm reaches or over this value.			
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—disable (default). 1—enable. 	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.	The column can only be configured when the Predictor hash source address (14/15).
Length	Length of the payload portion.	N/A	Unsigned integer. Value range: 0 to 1000. By default, 0 is configured.	The column can only be configured when the Predictor hash source address (14/15). If one of Length and End is not configured, the other cannot be configured.
Start	Beginning pattern for CARP.	N/A	String. Length: 0 to 127 characters.	The column can only be configured when the Predictor hash source address (14/15). The null string indicates the label is not configured.
End	Ending pattern for CARP.	N/A	String. Length: 0 to 127 characters.	The column can only be configured when the Predictor hash source address (14/15). The null string indicates the label is not configured.
BusyAction	Busy protection policies for server nodes	N/A	Enumeration: <ul style="list-style-type: none"> 0—Drop(default). 1—Enqueue. 2—Force. 	N/A
QueueLength	Queue length for aging	N/A	Unsigned integer. Value range: 1 to 100000.	The column can only be configured when the BusyAction enqueue (1).

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, the column is not configured.	
QueueTime out	Node aging time	N/A	Unsigned integer. Value range: 0 to 60. Unit: second. By default, the column is not configured.	The column can only be configured when the BusyAction enqueue (1).
RSTProbe	RST type probe template.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Only one template can be configured for each type.
ZeroWindow Probe	Zero-Window type probe template.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Only one template can be configured for each type.
RecoverTimeInterval	Auto recover time interval	N/A	Unsigned integer. Value range: 0 to 15300. Unit:minute. By default, the value is 0.	N/A
HTTPPassiveProbe	HTTP passive probe template.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Only one template can be configured for each probe type.

LB/ServerFarmProbes

This table contains information about Server Farm Probe that only uses NQA template.

XML structure

```

<LB>
  <ServerFarmProbes>
    <ServerFarmProbe>
      <ServerFarm></ServerFarm>
      <Probe></Probe>
      <NQADefaultPortEnable></NQADefaultPortEnable>
    </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
NQADefaultPortEnable	Enable detection using the default port of the NQA template.	N/A	Enumeration: <ul style="list-style-type: none">0—Disable (default).1—Enable.	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.
Ipv4Address Start	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.
Ipv4Address End	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.
Ipv6Address Start	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.
Ipv6Address End	End IPv6 address of the SNAT pool.	N/A	Hexadecimal string, colon-separated. By default, no IPv6	Example: 2::2. Loopback address, multicast address, link local address and 0::0

Column name	Column description	Column type	Data type and restrictions	Remarks
			addressEnd is specified.	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

Column name	Column description	Column type	Data type and restrictions	Remarks
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>
      <SynRetransTime></SynRetransTime>
      <KeepAliveTime></KeepAliveTime>
      <KeepAliveInterval></KeepAliveInterval>
      <KeepAliveCount></KeepAliveCount>
      <FinWait1Time></FinWait1Time>
      <FinWait2Time></FinWait2Time>
    </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: <ul style="list-style-type: none"> 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
TimeWaitTime	The time of TCP time-wait	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 2 is configured.	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.
SynRetransTime	Timeout time for syn retransmission	N/A	Unsigned integer. Value range: 1 to 75. Unit: second. By default, 10 is configured.	N/A
KeepAliveTime	Timeout time of keep-alive	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 1800 is configured.	N/A
KeepAliveInt	Interval time of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
KeepAliveInterval	keep-alive retransmission		Value range: 1 to 65535. Unit: second. By default, 10 is configured.	
KeepAliveCount	Number of times of keep-alive retransmission	N/A	Unsigned integer. Value range: 1 to 65535. By default, 3 is configured.	N/A
FinWait1Time	Timeout time of FIN-WAIT1	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 5 is configured.	N/A
FinWait2Time	Timeout time of FIN-WAIT2	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second. By default, 5 is configured.	N/A

LB/TCPAppParameters

This table contains information about TCP Application parameter profile.

XML structure

```

<LB>
  <TCPAppParameters>
    <TCPAppParameter>
      <Name></Name>
      <Description></Description>
      <MatchBufferSize></MatchBufferSize>
      <MatchBufferEnd></MatchBufferEnd>
      <MatchBufferTime></MatchBufferTime>
    </TCPAppParameter>
  </TCPAppParameters>
</LB>

```

Table description

Item	Description
Feature name	LB

Table name	TCPAppParameters
Table type	Multi-instance table
Row name	TCPAppParameter
Restrictions	Only TCP application 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.
MatchBuffer Size	The max match size of TCP buffer stream.	N/A	Unsigned integer. Value range: 1 to 4096. • By default, 4096 is configured.	N/A
MatchBuffer End	The match end string of TCP buffer stream.	N/A	String. Length: 0 to 10 characters.	N/A
MatchBuffer Time	The match time of TCP buffer stream	N/A	Unsigned integer. Value range: 1 to 5 Unit: second. By default, 3 is configured.	N/A

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 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.
RebalancePer Request	Enable implement load balancing for each HTTP request.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
ServerConnectionReuse	Enable connections to persist and be reused by multiple client connections.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
CaseInsensitive	Disable case-sensitivity matching for HTTP.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
HeaderModify PerRequest	Enable modify the HTTP header of every HTTP request or	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	response.			
HeaderMaxParseLength	Maximum number of bytes to parse for cookies, HTTP headers, and URL.	N/A	Unsigned integer. Value range: 1 to 65535. By default, 4096 is configured.	N/A
ContentMaxParseLength	Maximum number of bytes to parse for HTTP content.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 4096.	N/A
SecondaryCookieDelimiters	The delimiters used to separate secondary cookies.	N/A	String. Length: 1 to 4 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 ";
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: <ul style="list-style-type: none"> 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	N/A	Unsigned integer:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	packet.		Value range: 1 to 9 By default, 1 is configured.	
PreferMethod	Prefer method of compression	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Disable. 1—Enable(default). 	N/A
RequestVersion	Enable compress the HTTP response of version 1.0.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
DeleteAcceptEncoding	Enable delete accept-encoding header in HTTP request packet.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable(default). 	N/A
MemorySize	Memory size of compression.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—IPv4 1—IPv6 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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/MySQLParameters

This table contains information about a MySQL parameter profile.

XML structure

```

<LB>
  <MySQLParameters>
    <MySQLParameter>
      <Name></Name>
      <Description></Description>
      <PoolSize></PoolSize>
      <ServerConnectionReuse></ServerConnectionReuse>
      <MaxReuse></MaxReuse>
      <IdleTime></IdleTime>
      <IPv4SourceMask></IPv4SourceMask>
      <IPv6SourceMask></IPv6SourceMask>
    </MySQLParameter>
  </MySQLParameters>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	MySQLParameters
Table type	Multi-instance table
Row name	MySQLParameter
Restrictions	Only MySQL 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
PoolSize	Max cache connection count.	N/A	Unsigned integer. Value range: 1 to 64000. By default, the count is 1024.	N/A
ServerConnectionReuse	Enable connections to persist and be reused by multiple client connections.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	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
IPv4SourceMask	IPv4 source mask to determine its eligibility for reuse.	N/A	Unsigned integer. Value range: 0 to 32. By default, the value is 0.	N/A
IPv6SourceMask	IPv6 source mask to determine its eligibility for reuse.	N/A	Unsigned integer. 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: <ul style="list-style-type: none"> 0—Permit. 1—Deny. 	N/A
FilterType	Filter type of the rule.	N/A	Enumeration: <ul style="list-style-type: none"> 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>
      <PriorBusyEnable></PriorBusyEnable>
    </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Disable(default). 1—Enable. 	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: <ul style="list-style-type: none"> 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>
      <PriorBusyEnable></PriorBusyEnable>
    </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 sticky group.	N/A	Enumeration: <ul style="list-style-type: none"> 0—None (default). 1—Payload stickiness. 	Only when the type is payload 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, 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: <ul style="list-style-type: none"> 0—Disable(default). 1—Enable. 	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: <ul style="list-style-type: none"> 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>
  <PriorBusyEnable></PriorBusyEnable>
</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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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 limits for sessions that match sticky entries.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable(default). 1—Enable. 	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable(default). 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>
      <PriorBusyEnable></PriorBusyEnable>

```



```

    </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: <ul style="list-style-type: none"> • 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


```

    <Timeout></Timeout>
    <Type></Type>
    <HeaderName></HeaderName>
    <Offset></Offset>
    <Length></Length>
    <Start></Start>
    <End></End>
    <OverrideLimit></OverrideLimit>
    <PriorBusyEnable></PriorBusyEnable>
  </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 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: 10 to 604800. Unit: second. By default, the value is 60s.	N/A
Type	Sticky method of HTTP header sticky group.	N/A	Enumeration: <ul style="list-style-type: none"> 0—None (default). 1—URL stickiness. 2—Host stickiness 3—Method stickiness 4—Version stickiness 	Only when the type is URL stickiness (1) or host stickiness (2) or name stickiness (5) , configurations of offset, length, start, and end can be configured.


```

        </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 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
Type	Sticky method of SSL sticky group.	N/A	Enumeration: <ul style="list-style-type: none"> 0—None (default). 1—SSL Session-ID stickiness. 	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable(default). 1—Enable. 	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: <ul style="list-style-type: none"> 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>
      <PriorBusyEnable></PriorBusyEnable>
    </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: <ul style="list-style-type: none">0—None (default).1—SIP Call-ID stickiness.	N/A
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.		<ul style="list-style-type: none"> 0—Disable(default). 1—Enable. 	
PriorBusyEnable	Prior to busy action	N/A	Enumeration: <ul style="list-style-type: none"> 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	N/A	Enumeration:	When this column is

Column name	Column description	Column type	Data type and restrictions	Remarks
	policy.		<ul style="list-style-type: none"> 0—Generic. 1—HTTP. 2—Link-generic. 3—DNS. 4—RADIUS. 5—MySQL. 	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>
      <TCPPDropType></TCPPDropType>
    </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: <ul style="list-style-type: none"> 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 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 failed.	N/A	Enumeration: <ul style="list-style-type: none"> 0—None (default). 1—Match next class. 3—Fin close. 4—Rst close. 	N/A
TCPDropType	Type of closing TCP connection	N/A	Enumeration: <ul style="list-style-type: none"> 0—Fin close(default). 1—Rst close 	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>
      <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
ForwardType	Forward mode of the action.	N/A	Enumeration: <ul style="list-style-type: none">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	Name of the	N/A	String, case-insensitive.	The column cannot be

Column name	Column description	Column type	Data type and restrictions	Remarks
Farm	backup sever farm for the action.		Length: 0 to 63 characters.	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—None (default). 1—Match next class. 	N/A
BusyFallback	Fallback action when real server all busy.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Drop (default). 2—Forward all. 3—DNS server pool. 4—Skip current DNS proxy. 	N/A
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

Column name	Column description	Column type	Data type and restrictions	Remarks
Fallback	Fallback action when DNS server select failed.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <TCPPDropType></TCPPDropType>
    </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: <ul style="list-style-type: none"> 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
Fallback	Fallback action when real server select failed.	N/A	Enumeration: <ul style="list-style-type: none"> 0—None (default). 1—Match next class. 2—Response. 3—Fin close. 4—Rst close. 	N/A
RewriteValue	Content value need to be replaced in	N/A	String. Length: 1 to 127 characters.	This column and the column of ReplaceValue must be configured

Column name	Column description	Column type	Data type and restrictions	Remarks
	response.			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: <ul style="list-style-type: none"> 301—The requested resource has been permanently deleted. 302—The requested resource has been temporarily deleted (default). 	N/A
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	N/A	String, case-insensitive.	The column can be configured when ForwardType is Response

Column name	Column description	Column type	Data type and restrictions	Remarks
	response. Example: <ul style="list-style-type: none"> flash:/lb/1.html chassis3#slot1#flash:/lb/1.html 		Length: 1 to 255 characters.	(9) or there is no ForwardType column. When the column is configured, ForwardType becomes Resposne (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: <ul style="list-style-type: none"> 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).
TCPDropType	Type of closing TCP connection	N/A	Enumeration: <ul style="list-style-type: none"> 0—Fin close(default). 1—Rst close 	N/A

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.	<p>This column only can be configured when LocationURL is configured. Some special applications and constraints as below:</p> <p>%is: source IPv4 address or source IPv6 address.</p> <p>%ps: source port.</p> <p>%id: destination IPv4 address or IPv6 address</p> <p>%pd: destination port.</p> <p>%sis: source IPv4 address or source IPv6 address of server.</p> <p>%sps: source port of server.</p> <p>%sid: destination IPv4 address or IPv6 address of server.</p> <p>%spd: destination port of server.</p> <p>%{x509v}: the version of certificate</p> <p>%{x509issuer}: the issuer of certificate</p> <p>%{x509before}: the vaild time of certificate(invaild before this time)</p> <p>%{x509after}: the vaild time of certificate(invaild after this time)</p> <p>%{x509hash}: the MD5 hash of certificate</p> <p>%{x509snum}: the serial number of certificate</p> <p>%{x509sigalgo}: the signature algorithm of certificate</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>%{x509sub}: the subject of certificate</p> <p>%{x509spktype}: the subject public key type of certificate</p> <p>%{x509spk}: the subject public key of certificate</p> <p>%{x509spkRSA}: the number of subject public key bits of certificate</p> <p>%{dncn}: common name</p> <p>%{dne}: email</p> <p>%{dno}: company/organization</p> <p>%{dnou}: organization unit</p> <p>%{dnc}: country</p> <p>%{dns}: state/province</p> <p>%{dnl}: location</p> <p>To the above-mentioned applications, some situations, like only % and rewrite variate can behind %, must be constrained unless those serial % are not odd number.</p>
Encode	Encode type of URL rewrite.	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 0—Header Delete. 1—Header Insert. 2—Header Rewrite. 	N/A
Direction	Process direction.	Index	Enumeration: <ul style="list-style-type: none"> 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 "(" ")" "<" ">" "@" " " "," ";" ".:" "\" "" "" "/" "[" "]" "?" "=" "{" "}" 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:

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>%is: source IPv4 address or source IPv6 address.</p> <p>%ps: source port.</p> <p>%id: destination IPv4 address or IPv6 address.</p> <p>%pd: destination port.</p> <p>%sis: source IPv4 address or source IPv6 address of server.</p> <p>%sps: source port of server.</p> <p>%sid: destination IPv4 address or IPv6 address of server.</p> <p>%spd: destination port of server.</p> <p>%{x509v}: the version of certificate</p> <p>%{x509issuer}: the issuer of certificate</p> <p>%{x509before}: the vaild time of certificate(invaild before this time)</p> <p>%{x509after}: the vaild time of certificate(invaild after this time)</p> <p>%{x509hash}: the MD5 hash of certificate</p> <p>%{x509snum}: the serial number of certificate</p> <p>%{x509sigalgo}: the signature algorithm of certificate</p> <p>%{x509sub}: the subject of certificate</p> <p>%{x509spktype}: the subject public key type of certificate</p> <p>%{x509spk}: the subject public key of certificate</p> <p>%{x509spkRSA}: the number of subject public key bits of certificate</p> <p>%{dncn}: common name</p> <p>%{dne}: email</p> <p>%{dno}: company/organization</p> <p>%{dnou}: organization unit</p> <p>%{dnc}: country</p> <p>%{dns}: state/province</p> <p>%{dnl}: location</p> <p>To the above-mentioned</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				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.	<p>This column can only be configured when the type is Header Rewrite (2).</p> <p>Some special applications and constraints as below:</p> <p>%is: source IPv4 address or source IPv6 address.</p> <p>%ps: source port.</p> <p>%id: destination IPv4 address or IPv6 address</p> <p>%pd: destination port.</p> <p>%sis: source IPv4 address or source IPv6 address of server.</p> <p>%sps: source port of server.</p> <p>%sid: destination IPv4 address or IPv6 address of server.</p> <p>%spd: destination port of server.</p> <p>%{x509v}: the version of certificate</p> <p>%{x509issuer}: the issuer of certificate</p> <p>%{x509before}: the vaild time of certificate(invaild before this time)</p> <p>%{x509after}: the vaild time of certificate(invaild after this time)</p> <p>%{x509hash}: the MD5 hash of certificate</p> <p>%{x509snum}: the serial number of certificate</p> <p>%{x509sigalgo}: the signature algorithm of certificate</p> <p>%{x509sub}: the subject of certificate</p> <p>%{x509spktype}: the subject public key type of</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>certificate</p> <p>%{x509spk}: the subject public key of certificate</p> <p>%{x509spkRSA}: the number of subject public key bits of certificate</p> <p>%{dncn}: common name</p> <p>%{dne}: email</p> <p>%{dno}: company/organization</p> <p>%{dnou}: organization unit</p> <p>%{dnc}: country</p> <p>%{dns}: state/province</p> <p>%{dnl}: location</p> <p>To the above-mentioned applications, some situations, like only % and rewrite variate can behind %, must be constrained unless those serial % are not odd number.</p>
Encode	Encode type of URL rewrite.	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> • 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>

```


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: <ul style="list-style-type: none">• 0—Generic.• 1—HTTP.• 2—Link-generic.• 3—DNS.• 4—RADIUS.• 5—MySQL.	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: <ul style="list-style-type: none">• 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>
<AclNum></AclNum>
<AclName></AclName>
<ISP></ISP>
<User></User>
<UserGroup></UserGroup>
<IdentityDomain></IdentityDomain>
<InterfaceName></InterfaceName>
<PayloadExpression></PayloadExpression>
<CaseInsensitive></CaseInsensitive>
<Not></Not>    </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: <ul style="list-style-type: none"> 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
			<ul style="list-style-type: none"> 6—User. 7—User group. 8—Interface. 9—payload. 	
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 mutually 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 mutually 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).

Column name	Column description	Column type	Data type and restrictions	Remarks
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 (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).
PayloadExpression	Regular expression matched the payload content.	N/A	String. Length: 0 to 255 characters	This column can be configured only when the type is payload (9).
CaseInsensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: <ul style="list-style-type: none"> 0—Case sensitive (default) 1—Case insensitive 	This column can be configured only when the type is payload(9).
Not	Whether the matching condition is opposite	N/A	Enumeration: <ul style="list-style-type: none"> 0—Matching condition is not opposite (default) 1—Matching condition is opposite 	This column can be configured only when the type is payload(9).

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>
      <AclNum></AclNum>
      <AclName></AclName>
      <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: <ul style="list-style-type: none"> 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. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 10—User. 11—User group. 12—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: 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 mutually 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 mutually 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	Mask length of	N/A	Unsigned integer.	This column can be

Column name	Column description	Column type	Data type and restrictions	Remarks
Length	the destination IPv4 address.		Value range: 0 to 32. By default, the value is 32.	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.	<p>The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).</p> <p>The domain name supports wildcards including question marks (?) and asterisks (*).</p> <p>The following rules apply when you use wildcards:</p> <p>Use a question mark (?) to replace one character, except the dot (.).</p> <p>Multiple question marks can appear in the domain name.</p> <p>Use an asterisk (*) to replace multiple characters, except the dot (.).</p> <p>Multiple asterisks can appear in the domain name.</p> <p>Question marks and asterisks can appear in the domain name at the same time.</p>
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.	<p>This column can be configured only when the type is user or user group (10 or 11).</p> <p>The name cannot contain question marks (?).</p>
InterfaceName	Name of the	N/A	String, case-insensitive..	This column can be

Column name	Column description	Column type	Data type and restrictions	Remarks
e	interface.		Length: 1 to 47 characters. By default, no interface name is specified.	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>
      <AclNum></AclNum>
      <AclName></AclName>
      <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
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: <ul style="list-style-type: none"> 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
Srclpv4Address	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).
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.
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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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).
AcNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999. By default, no ACL number is specified.	AcNum and AcName are mutually 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).
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 mutually 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.	<p>The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.).</p> <p>The domain name supports wildcards including question marks (?) and asterisks (*).</p> <p>The following rules apply when you use wildcards:</p> <p>Use a question mark (?) to replace one character, except the dot (.).</p> <p>Multiple question marks can appear in the domain name.</p> <p>Use an asterisk (*) to replace multiple characters, except the dot (.).</p> <p>Multiple asterisks can appear in the domain name.</p> <p>Question marks and asterisks can appear in the domain name at the same time.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
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 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 (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>
      <AclNum></AclNum>

```



```

    <AclName></AclName>
    <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: <ul style="list-style-type: none"> • 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. • 11—User. • 12—User group. • 13—Interface. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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.
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: <ul style="list-style-type: none"> 0—Nonuser-defined (default). 1—User-defined. 	N/A
URL	Regular	N/A	String.	This column can be

Column name	Column description	Column type	Data type and restrictions	Remarks
	expression matched the URL.		Length: 0 to 255 characters.	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).
AcNum	ACL number.	N/A	Unsigned integer. Value range: 2000 to 3999. By default, no ACL number is specified.	AcNum and AcName are mutually 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).
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 mutually 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).
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>
      <AclNum></AclNum>
      <AclName></AclName>
      <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:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 0—Source IPv4. 1—Source IPv6. 2—Class. 3—IPv4 ACL. 4—IPv6 ACL. 5—RADIUS. 	
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 mutually 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 mutually 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/MySQLMatchRules

This table contains information about MySQL match rules.

XML structure

```
<LB>
  <MySQLMatchRules>
    <MySQLMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <ReferClass></ReferClass>
      <AclNum></AclNum>
      <AclName></AclName>
      <SqlExpression></SqlExpression>
      <CaseInsensitive></CaseInsensitive>
      <Not></Not>
    </MySQLMatchRule>
  </MySQLMatchRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	MySQLMatchRules
Table type	Multi-instance table
Row name	MySQLMatchRule
Restrictions	Only MySQL 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: <ul style="list-style-type: none"> 0—Source IPv4. 1—Source IPv6. 2—Class. 3—IPv4 ACL. 4—IPv6 ACL. 5—SQL. 	N/A
SrcIpv4Address	Source IPv4 address to match.	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	Source IPv6 address to match.	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 mutually 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 mutually 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).
SqlExpression	Regular expression used to match the SQL content.	N/A	String. Length: 1 to 255 characters	This column can be configured only when the type is sql(5).

Column name	Column description	Column type	Data type and restrictions	Remarks
CaseInsensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: <ul style="list-style-type: none"> 0—Case sensitive (default) 1—Case insensitive 	This column can be configured only when the type is sql(5).
Not	Whether the matching condition is opposite	N/A	Enumeration: <ul style="list-style-type: none"> 0—Matching condition is not opposite (default) 1—Matching condition is opposite 	This column can be configured only when the type is sql(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	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
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: <ul style="list-style-type: none">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 characters.	N/A
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
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.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, the value is 100.	
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: <ul style="list-style-type: none"> 0—NQA (default). 1—LB. 	N/A
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/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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 0—NQA (default). 1—LB. 	N/A
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 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/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	VRFPProximityProbeRule
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>
    <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 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: <ul style="list-style-type: none"> 0—Disable. 1—Enable (default). 	N/A
FtpEnable	Enable the FTP protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable (default). 	N/A
H323Enable	Enable the H323 protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
IcmpEnable	Enable the ICMP protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable (default). 	N/A
IlsEnable	Enable the ILS protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
MgcpEnable	Enable the MGCP protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
NbtEnable	Enable the NBT protocol	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	service.		(default). • 1—Enable.	
PtpEnable	Enable the PTP protocol service.	N/A	Enumeration: • 0—Disable. • 1—Enable (default).	N/A
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>

```



```

    </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: <ul style="list-style-type: none">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 mutually 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 mutually exclusive and only one of them can be set in a single message.
PerDestination	Enable the per-destination connection limit.	N/A	Enumeration: <ul style="list-style-type: none">0—Disable (default).1—Enable.	N/A
PerSource	Enable the per-source connection limit.	N/A	Enumeration: <ul style="list-style-type: none">0—Disable (default).1—Enable.	N/A
PerService	Enable the per-service connection limit.	N/A	Enumeration: <ul style="list-style-type: none">0—Disable (default).1—Enable.	N/A
ThresholdHigh	High threshold of the	N/A	Unsigned integer. Value range: 1 to $2^{32}-1$.	ThresholdHigh must be greater or equal than

Column name	Column description	Column type	Data type and restrictions	Remarks
	connections.		By default, the column is not configured.	ThresholdLow.
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: <ul style="list-style-type: none">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	N/A	Unsigned integer.	A larger value means a higher

Column name	Column description	Column type	Data type and restrictions	Remarks
	link.		Value range: 1 to 255. By default, the value is 100.	weight.
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: <ul style="list-style-type: none"> 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 $2^{32}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit: KB/s. 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
BandwidthBusyRecoveryRatio	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
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
OutBandwidth	Outbandwidth	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
thBusyRecoverRatio	busy recovery ratio.		Value range: 1 to 100. 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 11—Max outbound bandwidth. 	
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
ActivateLower	The status of main link group will be changed from	N/A	Unsigned integer. Value range: 1 to 99. By default, the column	If one of ActivateLower and ActivateUpper is not configured, the other cannot be configured. The value of ActivateUpper must be

Column name	Column description	Column type	Data type and restrictions	Remarks
	in use to backup when the ratio of the available links in main link group becomes smaller than this value.		is not configured which indicates if one real server is active, the server farm is active.	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
    </LinkGroupProbe>
  </LinkGroupProbes>
</LB>

```



```

    <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: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
Fallback	Fallback action.	N/A	Enumeration: <ul style="list-style-type: none"> 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>
      <StickySynType></StickySynType>
      <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
DefaultDNS ServerPool	Name of the default DNS server pool.	N/A	String, case-insensitive. <ul style="list-style-type: none"> 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 link protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 1—Enable. 	
ConnSynEnable	Enable the connection synchronization.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
StickySynEnable	Enable the sticky synchronization.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
StickySynType	Sticky synchronization type.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Synchronize in failover group (default). 1—Synchronize global. 	This column can only be configured when the StickySynEnable is Enable (1).
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>
<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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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 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 larger 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>

```



```

    </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: <ul style="list-style-type: none"> 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
HashIpv4Pr	Length of IPv4 address mask	N/A	Unsigned integer.	The column can only be configured when the Predictor is hash source

Column name	Column description	Column type	Data type and restrictions	Remarks
efixLength	for hash algorithm.		Value range: 0 to 32. By default, the value is 32.	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 DNS server in the DNS server pool.	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 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: <ul style="list-style-type: none"> 0—Disable. 1—Enable (default). 	N/A
NatEnable	Enable the NAT log of LB.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
BandwidthBusyEnable	Enable the bandwidth busy log of LB.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A

LB/ServerFarmMembers

This table contains information about server farm member.

XML structure

```

<LB>
  <ServerFarmMembers>
    <ServerFarmMember>
      <ServerFarm></ServerFarm>
      <RealServer></RealServer>
      <PortNumber></PortNumber>
      <Description></Description>
      <Weight></Weight>
      <Priority></Priority>
      <Shutdown></Shutdown>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitHTTPRequest></RateLimitHTTPRequest>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <ProbeList>
        <Probe></Probe>
        <NQADefaultPortEnable></NQADefaultPortEnable>
      </ProbeList>
    </ServerFarmMember>
  </ServerFarmMembers>
</LB>

```


Table description

Item	Description
Feature name	LB
Table name	ServerFarmMembers
Table type	Multi-instance table
Row name	ServerFarmMember
Restrictions	Only server farm member 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
RealServer	Name of the server farm member.	Index	String, case-insensitive. Length: 1 to 63 characters.	The server farm member must also be created in real server view.
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Description	Description of the server farm member.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Weight	Weight of the server farm member.	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 server farm member.	N/A	Unsigned integer. Value range: 1 to 8. By default, the value is 4.	A larger value means a higher priority.
Shutdown	Shutdown state for the server farm member.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Not configured (default). 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

Column name	Column description	Column type	Data type and restrictions	Remarks
			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
RateLimitHTTPRequest	Maximum HTTP request rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: qps. By default, the value is 0, which indicates the rate is not limit.	N/A
ProbeSuccessCriteria	Probe success criteria for the server farm member.	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
ProbeList	Probe method list for the server farm member.	Data structure	Members include: <ul style="list-style-type: none"> Probe. 	N/A
Probe	Probe method for the server farm member.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
NQADefaultPortEnable	Enable detection using the default port of the NQA template.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A

LB/LinkGroupMembers

This table contains information about link group member.

XML structure

```

<LB>
  <LinkGroupMembers>
    <LinkGroupMember>
      <LinkGroup></LinkGroup>

```



```

<Link></Link>
<Description></Description>
<Weight></Weight>
<Priority></Priority>
<Shutdown></Shutdown>
<MaxConnectionLimit></MaxConnectionLimit>
<RateLimitConnection></RateLimitConnection>
<ProbeSuccessCriteria></ProbeSuccessCriteria>
<ProbeList>
  <Probe></Probe>
</ProbeList>
</LinkGroupMember>
</LinkGroupMembers>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	LinkGroupMembers
Table type	Multi-instance table
Row name	LinkGroupMember
Restrictions	Only link group member 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
Link	Name of the link group member.	Index	String, case-insensitive. Length: 1 to 63 characters.	The link group member must also be created in link view.
Description	Description of the link group member.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Weight	Weight of the link group member.	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 link group	N/A	Unsigned integer.	A larger value means a higher priority.

Column name	Column description	Column type	Data type and restrictions	Remarks
	member.		Value range: 1 to 8. By default, the value is 4.	
Shutdown	Shutdown state for the link group member.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Not configured (default). 1—Shutdown. 2—Slow-shutdown. 	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
ProbeSuccessCriteria	Probe success criteria for the link group member.	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
ProbeList	Probe method list for the link group member.	Data structure	Members include: <ul style="list-style-type: none"> Probe. 	N/A
Probe	Probe method for the link group member.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A

LB/DNSServerPoolMembers

This table contains information about DNS server pool member.

XML structure

```

<LB>
  <DNSServerPoolMembers>
    <DNSServerPoolMember>
      <DNSServerPool></DNSServerPool>

```



```

    <DNSServer></DNSServer>
    <PortNumber></PortNumber>
    <Description></Description>
    <Weight></Weight>
    <Priority></Priority>
    <ProbeSuccessCriteria></ProbeSuccessCriteria>
    <ProbeList>
      <Probe></Probe>
    </ProbeList>
  </DNSServerPoolMember>
</DNSServerPoolMembers>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	DNSServerPoolMembers
Table type	Multi-instance table
Row name	DNSServerPoolMember
Restrictions	Only DNS server pool member 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
DNSServer	Name of the DNS server pool member.	Index	String, case-insensitive. Length: 1 to 63 characters.	The DNS server pool member must also be created in DNS server view.
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Description	Description of the DNS server pool member.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Weight	Weight of the DNS server pool member.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	A larger value means a higher weight.

Column name	Column description	Column type	Data type and restrictions	Remarks
Priority	Priority of the DNS server pool member.	N/A	Unsigned integer. Value range: 1 to 8. By default, the value is 4.	A larger value means a higher priority.
ProbeSuccessCriteria	Probe success criteria for the DNS server pool member.	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
ProbeList	Probe method list for the DNS server pool member.	Data structure	Members include: <ul style="list-style-type: none"> Probe. 	N/A
Probe	Probe method for the DNS server pool member.	N/A	String, case-insensitive. Length: 1 to 32 characters.	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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>
      <Description></Description>
      <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
Description	Description information for the probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Type	Type of the probe template.	N/A	Enumeration: <ul style="list-style-type: none">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

LB/ISPWhoisMntners

This table contains information about ISP whois-mntnr.

XML structure

```
<LB>
  <ISPWhoisMntners>
    <ISPWhoisMntner>
      <ISPName></ISPName>
      <WhoisMntner></WhoisMntner>
    </ISPWhoisMntner>
  </ISPWhoisMntners>
</LB>
```

Table description

Item	Description
Feature name	LB

Table name	ISPWhoisMntner
Table type	Multi-instance table
Row name	ISPWhoisMntner
Restrictions	Only ISP whois-mntner 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
ISPName	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
WhoisMntner	Name of the whois-mntner.	Index	String, case-sensitive. Length: 1 to 63 characters.	Number of mntner objects in the ISP cannot exceed the limit 10. A whois-mntner object only can be configured by one ISP.

LB/ISPUpdate

This table contains information about ISP update.

XML structure

```

<LB>
  <ISPUpdate>
    <Enable></Enable>
    <Frequency></Frequency>
    <Type></Type>
    <Domain></Domain>
    <Ipv4Address></Ipv4Address>
  </ISPUpdate>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ISPUpdate
Table type	Single-instance table
Row name	N/A

Restrictions	Only ISP update 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
Enable	Enable the ISP update.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
Frequency	Frequency of ISP update.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Per-day. 1—Per-week (default). 2—Per-month. 	N/A
Type	Type of the whois server.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Domain. 1—IPv4 address. 	N/A
Domain	Domain of the maintainer.	N/A	String, case-insensitive. Length: 1 to 253 characters. By default, no domain is specified.	The string can contain letters, numbers, hyphens (-), underscores (_), and dots (.). This column can be configured only when the type is Domain(0).
Ipv4Address	Address of the maintainer.	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 are not supported. This column can be configured only when the type is IPv4 address(1).

LB/DNSCachesGlobalCfg

This table contains information about DNS global configuration.

XML structure

```

<LB>
  <DNSCachesGlobalCfg>
    <Timeout></Timeout>
  </DNSCachesGlobalCfg>
</LB>

```


Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Timeout	Aging time of DNS cache.	Index	Unsigned integer. Value range: 1 to 1440. Unit: minute	N/A

LB/RSTProbeTemplate

This table contains information about RST probe template.

XML structure

```
<LB>
  <RSTProbeTemplates>
    <RSTProbeTemplate>
      <Name></Name>
      <Description></Description>
      <TimeInterval></TimeInterval>
      <PacketLimit></PacketLimit>
      <ProtectAction></ProtectAction>
      <BusyTimeout></BusyTimeout>
      <RetryTimes></RetryTimes>
    </RSTProbeTemplate>
  </RSTProbeTemplates>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	RSTProbeTemplates
Table type	Multi-instance table

Row name	RSTProbeTemplate
Restrictions	Only RST probe template 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 RST probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description information for the RST probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
TimeInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 5 to 255. By default, the value is 10. Unit: second.	N/A
PacketLimit	Packet limit of RST probe template.	N/A	Unsigned integer: Value range: 1 to 4294967295. By default, the value is 1000000.	N/A.
ProtectAction	Protection action of RST probe template.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Busy (default). 1—Auto-shutdown. 	N/A
BusyTimeout	Busy time of real server.	N/A	Unsigned integer. Value range: 5 to 3600. By default, the value is 30. Unit: second.	The busy type protection action is valid.
RetryTimes	Busy protection times.	N/A	Unsigned integer. Value range: 0 to 255. By default, the value is 0.	The busy type protection action is valid and value 0 means keep retrying.

LB/ZeroWindowProbeTemplate

This table contains information about Zero Window probe template.

XML structure

```
<LB>
  <ZeroWindowProbeTemplates>
    <ZeroWindowProbeTemplate>
      <Name></Name>
      <Description></Description>
      <TimeInterval></TimeInterval>
      <RatioLimit></RatioLimit>
      <ProtectAction></ProtectAction>
      <BusyTimeout></BusyTimeout>
      <RetryTimes></RetryTimes>
    </ZeroWindowProbeTemplate>
  </ZeroWindowProbeTemplates>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ZeroWindowProbeTemplates
Table type	Multi-instance table
Row name	ZeroWindowProbeTemplate
Restrictions	Only zero window probe template 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 zero window probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description information for the zero window probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
TimeInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 5 to 255. By default, the value is 10. Unit: second.	N/A
RatioLimit	Ratio limit of zero window	N/A	Unsigned integer: Value range: 1 to 100.	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
	probe template.		By default, the value is 40. Unit: %	
ProtectAction	Protection action of zero window probe.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Busy (default). 1—Auto-shutdown. 	N/A.
BusyTimeout	Busy time of real server.	N/A	Unsigned integer. Value range: 5 to 3600. By default, the value is 30. Unit: second.	The busy type protection action is valid.
RetryTimes	Busy protection times.	N/A	Unsigned integer. Value range: 0 to 255. By default, the value is 0	The busy type protection action is valid and value 0 means keep retrying.

LB/ProbeTemplate

This table contains information about probe template that is used for proximity.

XML structure

```

<LB>
  <ProbeTemplates>
    <ProbeTemplate>
      <Name></Name>
      <Description></Description>
      <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
Description	Description information for the probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Type	Type of the probe template.	N/A	Enumeration: <ul style="list-style-type: none"> 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: 1 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

LB/HTTPPassiveProbeTemplate

This table contains information about an HTTP passive probe template.

XML structure

```

<LB>
  <HTTPPassiveProbeTemplates>
    <HTTPPassiveProbeTemplate>
      <Name></Name>
      <Description></Description>
      <MonitorInterval></MonitorInterval>
      <URLThreshold></URLThreshold>
      <Timeout></Timeout>
      <URLList>
        <CheckUrl></CheckUrl>
      </URLList>
    </HTTPPassiveProbeTemplate>
  </HTTPPassiveProbeTemplates>
</LB>

```



```

    <StatusCodeList>
      <StatusCode></StatusCode>
    </StatusCodeList>
  </HTTPPassiveProbeTemplate>
</HTTPPassiveProbeTemplates>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	HTTPPassiveProbeTemplates
Table type	Multi-instance table
Row name	HTTPPassiveProbeTemplate
Restrictions	Only HTTP passive probe template 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 HTTP passive probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description for the HTTP passive probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MonitorInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 1 to 5. By default, the value is 1. Unit: second.	N/A
URLThreshold	URL threshold of the HTTP passive probe template.	N/A	Unsigned integer: Value range: 1 to 4294967295. By default, the value is 10000.	N/A.
Timeout	Response timeout of the HTTP passive probe template.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 5. Unit: second.	N/A
URLList	URL list for the HTTP passive	Data structure	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	probe template.		URL.	
CheckUrl	URL for the HTTP passive probe template.	N/A	String, Length: 1 to 255 characters.	A URL list can contain a maximum of 10 URLs.
StatusCodeList	Status code list for the HTTP passive probe template.	Data structure	Members include: StatusCode.	N/A
StatusCode	Status code for the HTTP passive probe template.	N/A	Unsigned integer.	A status code list can contain a maximum of 10 status codes.

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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>
      <TCPParameterClientSide></TCPParameterClientSide>
      <TCPParameterServerSide></TCPParameterServerSide>
      <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>
      <StickySynType></StickySynType>
      <RedundancyGroup></RedundancyGroup>
```



```

    <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 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: <ul style="list-style-type: none"> 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	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
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 profile 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 profile 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.
TCPParameterClientSide	Client-side tcp parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
TCPParameterServerSide	Server-side tcp parameter	N/A	String, case-insensitive. Length: 1 to 63 characters.	The null string indicates the label is not configured.
HTTPParameter	Parameter profile 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 profile 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
RateLimitBps	Maximum	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ndwidth	bandwidth rate limit.		Value range: 0 to $2^{32}-1$. Unit : KB/s.	
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.
RedirectReturnCode	Redirection condition code.	N/A	Enumeration: <ul style="list-style-type: none"> 301—The requested resource has been permanently moved. 302—The requested resource has been temporarily moved. 	N/A
ServiceEnable	Enable the virtual server.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 2—Disable. 	N/A
ServerFarmInUse	Name of the server farm in use.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Default sever farm. 1—Backup server farm. 2—No server farm. 	N/A
BusyProtect	Enable link	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	protection.		<ul style="list-style-type: none"> 0—Disable. 1—Enable. 	
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Using LB bandwidth statistics. 1—Using interface bandwidth statistics. 	N/A
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
StickySynEnable	Enable sticky synchronization.	N/A	<ul style="list-style-type: none"> Enumeration: 0—Disable. 1—Enable. 	N/A
StickySynType	Sticky synchronization type.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Synchronize in failover group (default). 1—Synchronize global. 	This column can only be configured when the StickySynEnable is Enable (1).
Redundancy Group	Name of redundancy group for virtual server flow-redirect.	N/A	String, case-insensitive. Length: 1 to 15 characters.	N/A
HTTPCompressionParameter	Parameter profile 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: <ul style="list-style-type: none"> 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>
    <TCPAppParameter></TCPAppParameter>
    <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>
    <StickySynType></StickySynType>
    <RedundancyGroup></RedundancyGroup>
    <LimitPolicy></LimitPolicy>
    <RouteAdvertisementEnable></RouteAdvertisementEnable>
    <ApplicationMode></ApplicationMode>
  </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: <ul style="list-style-type: none">• 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.
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	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			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.	
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.
DefaultLinkGroup	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.
BackupLinkGroup	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. Length: 0 to 63 characters	The null string indicates the label is not configured.
IPParameter	Parameter profile 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 profile 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.
TCPAppParameter	Parameter profile whose type is TCP-Application 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	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
	policy.		Length: 0 to 31 characters.	
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: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
ServiceEnable	Enable the service of the virtual server.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 2—Disable. 	N/A
ServerFarmInUse	Name of the server farm in use.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Default sever farm. 1—Backup server farm. 2—No server farm. 	N/A
LinkGroupInUse	Name of the in use link group.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Default link group. 1—Backup link group. 2—No link group. 	N/A
BusyProtect	Enable link	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	protection.		<ul style="list-style-type: none"> 0—Disable. 1—Enable. 	
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Using LB bandwidth statistics. 1—Using interface bandwidth. 	N/A
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
StickySynEnable	Enable sticky synchronization.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
StickySynType	Sticky synchronization type.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Synchronize in failover group (default). 1—Synchronize global. 	This column can only be configured when the StickySynEnable is Enable (1).
RedundancyGroup	Name of redundancy group for virtual server flow-redirect.	N/A	String, case-insensitive. Length: 1 to 15 characters.	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: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
ApplicationMode	Enable TCP layer7 load balancing.	N/A	Enumeration: <ul style="list-style-type: none"> 0—TCP layer4 (default). 1—TCP layer7. 	N/A

LB/RADIUSVirtualServers

This table contains information about RADIUS virtual servers.

XML structure

```
<LB>
  <RADIUSVirtualServers>
```



```

<RADIUSVirtualServer>
  <Name></Name>
  <Type></Type>
  <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 characters.	N/A
Type	Type of the virtual server.	N/A	Enumeration: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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 profile 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.
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: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
ServiceEnable	Enable the service of the virtual server.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 2—Disable. 	N/A
ServerFarmInUse	Name of the server farm in use.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Default sever farm. 1—Backup server farm. 2—No server farm. 	N/A
BusyProtect	Enable link	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	protection.		<ul style="list-style-type: none"> 0—Disable. 1—Enable. 	
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Using LB bandwidth statistics. 1—Using interface bandwidth. 	N/A
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
StickySynEnable	Enable sticky synchronization.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
<StickySynType></StickySynType>
<RedundancyGroup></RedundancyGroup>
<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: <ul style="list-style-type: none"> 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,	The null string indicates a public

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	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: 0 to 65535.	N/A
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 profile 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: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
ServiceEnable	Enable the service of the	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	virtual server.		<ul style="list-style-type: none"> 1—Enable. 	
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: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 	N/A
ServerFarmInUse	Name of the server farm in use.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Default sever farm. 1—Backup server farm. 2—No server farm. 	N/A
BusyProtectEnable	Enable link protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Using LB bandwidth statistics. 1—Using interface bandwidth statistics. 	N/A
ConnSynEnable	Enable connection synchronization.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
StickySynEnable	Enable sticky synchronization.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
StickySynType	Sticky synchronization type.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Synchronize in failover group (default). 1—Synchronize global. 	This column can only be configured when the StickySynEnable is Enable (1).
RedundancyGroup	Name of redundancy group for virtual server flow-redirect.	N/A	String, case-insensitive. Length: 1 to 15 characters.	N/A
LimitPolicy	Name of the	N/A	String,	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	limit policy.		case-insensitive. Length: 1 to 63 characters.	
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A

LB/MySQLVirtualServers

This table contains information about MySQL virtual servers.

XML structure

```
<LB>
  <MySQLVirtualServers>
    <MySQLVirtualServer>
      <Name></Name>
      <Description></Description>
      <VRF></VRF>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <PortNumber></PortNumber>
      <DefaultServerFarm></DefaultServerFarm>
      <BackupServerFarm></BackupServerFarm>
      <StickyGroup></StickyGroup>
      <Policy></Policy>
      <IPParameter></IPParameter>
      <TCPParameter></TCPParameter>
      <TCPParameterClientSide></TCPParameterClientSide>
      <TCPParameterServerSide></TCPParameterServerSide>
      <MySQLParameter></MySQLParameter>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitBandwidth></RateLimitBandwidth>
      <ServiceEnable></ServiceEnable>
      <RateLimitInBandwidth></RateLimitInBandwidth>
      <RateLimitOutBandwidth></RateLimitOutBandwidth>
      <BusyProtectEnable></BusyProtectEnable>
      <RSBandwidthProtectOrigin></RSBandwidthProtectOrigin>
      <StickySynEnable></StickySynEnable>
      <StickySyncType></StickySyncType>
      <LimitPolicy></LimitPolicy>
      <RouteAdvertisementEnable></RouteAdvertisementEnable>
      <Version></Version>
      <ReadServerFarm></ReadServerFarm>
```



```

<ReadStickyGroup></ReadStickyGroup>
<WriteServerFarm></WriteServerFarm>
<WriteStickyGroup></WriteStickyGroup>
<RedundancyGroup></RedundancyGroup>
<State></State>
<ServerFarmInUse></ServerFarmInUse>
<UserList>
  <UserName></UserName>
</UserList>
</MySQLVirtualServer>
</MySQLVirtualServers>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	MySQLVirtualServers
Table type	Multi-instance table
Row name	MySQLVirtualServer
Restrictions	Only MySQL 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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	Port number.	N/A	Unsigned integer. Value range: 1 to 65535. By default, the value is 3306.	N/A
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 profile whose type is IP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPParameter	Parameter profile whose type is TCP for the virtual server.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
TCPParameterClientSide		N/A		N/A
TCPParameterServerSide		N/A		N/A
MySQLParameter	Parameter profile whose type is MySQL 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 $2^{32}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			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
ServiceEnable	Enable the virtual server.	N/A	Enumeration: <ul style="list-style-type: none"> 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 link protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
RSBandwidthProtectOrigin	Origin of real server bandwidth statistics that are used for bandwidth protection.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Using LB bandwidth statistics (default). 1—Using interface bandwidth statistics. 	N/A
StickySynEn	Enable sticky	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
able	entry synchronization.		<ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	
LimitPolicy	Name of the limit policy.	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
StickySyncType		N/A		N/A
RouteAdvertisementEnable	Enable route advertisement.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
Version	MySQL version info.	N/A	Enumeration: <ul style="list-style-type: none"> 0—5.0. 1—5.1. 2—5.5. 3—5.6. 4—5.7. By default, 3 is configured. 	N/A
Redundancy Group		N/A	String, Length: 1 to 15 Name of the redundancy group	N/A
State	State of the virtual server.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 2—Disable. 	N/A
ServerFarmInUse	Name of the server farm in use.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Default sever farm. 1—Backup server farm. 2—Read/Write server farm. 3—No server farm. 	N/A
UserList	MySQL database user list.	Data structure	Members include: <ul style="list-style-type: none"> UserName. Password. 	Max user info count is 100.
UserName	MySQL database login username.	N/A	String, Length: 1 to 63 characters.	N/A
ReadServerFarm	MySQL read server farm name for	N/A	String, case-insensitive. Length: 1 to 63	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	read/write separation		characters.	
ReadSticky Group	Name of the sticky group for read server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the read server farm is not configured.
WriteServer Farm	MySQL write server farm name for read/write separation	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
WriteSticky Group	Name of the sticky group for write server farm.	N/A	String, case-insensitive. Length: 1 to 63 characters.	This column cannot be configured if the write server farm is not configured.

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: <ul style="list-style-type: none"> 0—IP. 1—TCP. 2—UDP. 3—HTTP. 4—FASTHTTP. 5—LINK-IP. 8—SIP-UDP. 9—SIP-TCP. 10—MySQL. 	N/A
VRF	VRF name.	N/A	String, Length: 0 to 31 characters.	The null string indicates public network.
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: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
State	State of the virtual server.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
BusyProtect Enable	State of the busy protect.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 	N/A
RSBandwidthProtectOrigin	Source of the virtual server bandwidth	N/A	Enumeration: <ul style="list-style-type: none"> 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
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
MaxConnect	Max connections	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ionPerSec	per second that the virtual server received.		Value range: 0 to $2^{32}-1$. Unit: cps.	
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 server.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
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	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	client.			
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>
      <RateLimitHTTPRequest></RateLimitHTTPRequest>
      <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	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	port.		Value range: 0 to 65535.	
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: <ul style="list-style-type: none"> • 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
RateLimitHTTPRequest	Maximum HTTP request rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: qps.	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
State	State of the real server.	N/A	Enumeration: <ul style="list-style-type: none"> • 0—Unavailable. • 1—Available. • 2—Slow-shutdown. • 3—Shutdown. • 4—Probe-failed. • 5—Standby. • 6—Ramp. • 8—Busy. • 9—Unknown. 	N/A
RateLimitIn	Inbound	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Bandwidth	maximum bandwidth rate limit number.		Value range: 0 to $2^{32}-1$. Unit: KB/s.	
RateLimitOutBandwidth	Outbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. 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 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.	N/A
MaxBandwidth	Max bandwidth.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
InMaxBand	Max inbound	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
width	bandwidth.		Value range: 0 to $2^{32}-1$. Unit: KB/s.	
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: <ul style="list-style-type: none"> 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>
      <NQADefaultPortEnable></NQADefaultPortEnable>
      <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
NQADefaultPortEnable	Enable detection using the default port of the NQA template.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A
State	State of the real server probe.	N/A	Enumeration: <ul style="list-style-type: none"> 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 server received.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ActiveConnections	Active connections that the real server received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
MaxConnect	Max	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ions	connections that the real server received.		Value range: 0 to $2^{32}-1$.	
Connections PerSec	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 $2^{32}-1$. Unit: KB/s.	N/A
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	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the real server dropped.		$2^{64}-1$.	
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>
    <Offset></Offset>
    <Length></Length>
    <Start></Start>
    <End></End>
    <BusyAction></BusyAction>
    <QueueLength></QueueLength>
    <QueueTimeout></QueueTimeout>
    <RSTProbe></RSTProbe>
    <ZeroWindowProbe></ZeroWindowProbe>
    <RecoverTimeInterval></RecoverTimeInterval>
    <HTTPPassiveProbe></HTTPPassiveProbe>
  </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.

Column name	Column description	Column type	Data type and restrictions	Remarks
Predictor	Predictor algorithm for LB to select a real server to serve a client request.	N/A	Enumeration: <ul style="list-style-type: none"> • 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—Least time. • 13—Dynamic round-robin. • 14—Hash HTTP. • 15—CARP HTTP. • 16—CARP source address. • 17—CARP source port. • 18—CARP destination address. • 19—Least-connection member. • 20—Least time member. 	N/A
HashIpv4PrefixLength	Length of IPv4 address mask for hash or CARP algorithm.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
HashIpv6PrefixLength	Length of IPv6 address prefix for hash or CARP algorithm.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
SelectServerMinNumber	Minimum number of the	N/A	Unsigned integer. Value range: 1 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	active real server in the server farm.		1000.	
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: <ul style="list-style-type: none"> 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 farm.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 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.	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	N/A	Enumeration: <ul style="list-style-type: none"> 0—Keep. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	LB takes with respect to connections if any real server fails in a server farm.		<ul style="list-style-type: none"> 1—Reset. 2—Reschedule. 	
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: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 	N/A
ProximityEnable	Enable the proximity.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	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 CARP.	N/A	String. Length: 0 to 127 characters.	N/A
End	Ending pattern for CARP.	N/A	String. Length: 0 to 127 characters.	N/A
BusyAction	Busy protection policies for server nodes	N/A	Enumeration: <ul style="list-style-type: none"> 0—Drop(default). 1—Enqueue. 2—Force. 	N/A
QueueLength	Queue length for aging	N/A	Unsigned integer. Value range: 1 to 100000. By default, the column is not configured.	The column can only be configured when the BusyAction enqueue (1).

Column name	Column description	Column type	Data type and restrictions	Remarks
QueueTime out	Node aging time	N/A	Unsigned integer. Value range: 0 to 60. Unit: second. By default, the column is not configured.	The column can only be configured when the BusyAction enqueue (1).
RSTProbe	RST type probe template.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Only one template can be configured for each type.
ZeroWindow Probe	Zero-Window type probe template.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Only one template can be configured for each type.
RecoverTimeInterval	Auto recover time interval	N/A	Unsigned integer. Value range: 0 to 15300. Unit:minute. By default, the value is 0.	N/A
HTTPPassiveProbe	HTTP passive probe template.	N/A	String, case-insensitive. Length: 1 to 32 characters.	Only one template can be configured for each probe type.

LB/ServerFarmProbes

This table contains information about Server Farm Probe that only uses NQA template.

XML structure

```

<LB>
  <ServerFarmProbes>
    <ServerFarmProbe>
      <ServerFarm></ServerFarm>
      <Probe></Probe>
      <NQADefaultPortEnable></NQADefaultPortEnable>
    </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
NQADefaultPortEnable	Enable detection using the default port of the NQA template.	N/A	Enumeration: <ul style="list-style-type: none">0—Disable (default).1—Enable.	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 server farm.	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 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
Connections	Connections per second	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PerSec	that the server farm received.		Value range: 0 to $2^{32}-1$. Unit: cps.	
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
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.
Ipv4AddressStart	Start IPv4 address of the SNAT pool.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv4AddressEnd	End IPv4 address of the SNAT pool.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Ipv6AddressStart	Start IPv6 address of the SNAT pool.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
Ipv6AddressEnd	End IPv6 address of the	N/A	Hexadecimal string, colon-separated.	Example: 2::2.

Column name	Column description	Column type	Data type and restrictions	Remarks
	SNAT pool.			

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>
      <SynRetransTime></SynRetransTime>
      <KeepAliveTime></KeepAliveTime>
      <KeepAliveInterval></KeepAliveInterval>
      <KeepAliveCount></KeepAliveCount>
      <FinWait1Time></FinWait1Time>
      <FinWait2Time></FinWait2Time>
    </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	N/A	String.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	profile.		Length: 0 to 127 characters.	
ExceedMSS	Processing method when segments exceed the maximum segment size of TCP segment.	N/A	Enumeration: <ul style="list-style-type: none"> 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.
SynRetransTime	Timeout time for syn retransmission	N/A	Unsigned integer. Value range: 1 to 75. Unit: second.	N/A
KeepAliveTime	Timeout time of keep-alive	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second.	N/A
KeepAliveInterval	Interval time of keep-alive retransmission	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second.	N/A
KeepAliveCount	Number of times of keep-alive retransmission	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
FinWait1Time	Timeout time of FIN-WAIT1	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second.	N/A
FinWait2Time	Timeout time of FIN-WAIT2	N/A	Unsigned integer. Value range: 1 to 65535. Unit: second.	N/A

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.

Column name	Column description	Column type	Data type and restrictions	Remarks
RebalancePerRequest	Enable implement load balancing for each HTTP request.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
ServerConnectionReuse	Enable connections to persist and be reused by multiple client connections.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
CaseInsensitive	Disable case-sensitivity matching for HTTP.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
HeaderModifyPerRequest	Enable modify the HTTP header of every HTTP request or response.	N/A	Enumeration: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> 0—Keep. 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	N/A
PreferMethod	Prefer method of compression	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
RequestVersion	Enable compress the HTTP response of version 1.0.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
DeleteAcceptEncoding	Enable delete accept-encoding header in HTTP request packet.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
MemorySize	Memory size of compression.	N/A	Enumeration: <ul style="list-style-type: none"> 1—1KB. 2—2KB. 4—4KB. 8—8KB. 16—16KB. 32—32KB. 64—64KB. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
WindowSize	Window size of compression.	N/A	Enumeration: <ul style="list-style-type: none"> • 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 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: <ul style="list-style-type: none"> 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/MySQLParameters

This table contains information about a MySQL parameter profile.

XML structure

```

<LB>
  <MySQLParameters>
    <MySQLParameter>
      <Name></Name>
      <Description></Description>
      <PoolSize></PoolSize>
      <ServerConnectionReuse></ServerConnectionReuse>
      <MaxReuse></MaxReuse>
      <IdleTime></IdleTime>
      <IPv4SourceMask></IPv4SourceMask>
      <IPv6SourceMask></IPv6SourceMask>

```



```

    </MySQLParameter>
  </MySQLParameters>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	MySQLParameters
Table type	Multi-instance table
Row name	MySQLParameter
Restrictions	Only MySQL 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
PoolSize	Max cache connection count.	N/A	Unsigned integer. Value range: 1 to 64000. By default, the count is 1024.	N/A
ServerConnectionReuse	Enable connections to persist and be reused by multiple client connections.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	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

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4SourceMask	IPv4 source mask to determine its eligibility for reuse.	N/A	Unsigned integer. Value range: 0 to 32. <ul style="list-style-type: none"> By default, the value is 0. 	N/A
IPv6SourceMask	IPv6 source mask to determine its eligibility for reuse.	N/A	Unsigned integer. 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: <ul style="list-style-type: none"> 0—Permit. 1—Deny. 	N/A
FilterType	Filter type of the rule.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <PriorBusyEnable></PriorBusyEnable>
    </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—None. 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 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			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: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <PriorBusyEnable></PriorBusyEnable>
    </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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">0—Disable.1—Enable.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: <ul style="list-style-type: none">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>
      <PriorBusyEnable></PriorBusyEnable>
    </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	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	of the HTTP content sticky group.		<ul style="list-style-type: none"> 0—None. 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: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: <ul style="list-style-type: none"> 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>
    <PriorBusyEnable></PriorBusyEnable>
  </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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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.	N/A
CheckAll	Enable the check option for an HTTP cookie type persistence group.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: <ul style="list-style-type: none"> 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>
      <PriorBusyEnable></PriorBusyEnable>
    </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: <ul style="list-style-type: none">• 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	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
	value.			
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: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: <ul style="list-style-type: none"> 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>
      <PriorBusyEnable></PriorBusyEnable>
    </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: <ul style="list-style-type: none"> 0—None. 1—SSL Session-ID stickiness. 	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: <ul style="list-style-type: none"> 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>
      <PriorBusyEnable></PriorBusyEnable>
    </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 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	N/A
Type	Sticky method of the SIP sticky group.	N/A	Enumeration: <ul style="list-style-type: none">0—None.1—SIP Call-ID stickiness.	N/A
OverrideLimit	Ignore the limits for sessions that match sticky entries.	N/A	Enumeration: <ul style="list-style-type: none">0—Disable.1—Enable.	N/A
PriorBusyEnable	Prior to busy action	N/A	Enumeration: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 1—Address-Port. 2—Payload. 3—HTTP-Content 4—HTTP-Cookie 5—HTTP-Header 6—SSL 7—Radius 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: <ul style="list-style-type: none"> 0—Generic. 1—HTTP. 2—Link-generic. 3—DNS. 4—RADIUS. 5—MySQL. 	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>
      <TCPDropType></TCPDropType>
    </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: <ul style="list-style-type: none">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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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 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
ServerFarmInUse	Name of the in use sever farm for the action.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—None. 1—Match next class. 3—Fin close. 4—Rst close. 	N/A
TCPDropType	Type of closing TCP connection	N/A	Enumeration: <ul style="list-style-type: none"> 0—Fin close(default). 1—Rst close 	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: <ul style="list-style-type: none">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 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	of the action.		<ul style="list-style-type: none"> 1—Drop. 2—Forward all. 3—Server farm. 	
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—None. 1—Match next class. 	N/A
BusyFallback	Fallback action when real server all busy.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 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 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <TCPPDropType></TCPPDropType>
    </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—None. 1—Match next class. 2—Response. 3—Fin close. 4—Rst close. 	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: %i: insert source IPv4 address or source IPv6 address into header of the

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>message.</p> <p>%ps: insert source port into header of the message.</p> <p>%id: insert destination IPv4 address or IPv6 address into header of the message.</p> <p>%pd: insert destination port into header of the message.</p> <p>To the above-mentioned applications, some situations, like only %, ps, id, pd can behind %, must be constrained unless those serial % are not odd number.</p>
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	<p>Enumeration:</p> <ul style="list-style-type: none"> 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.	<p>If the column is not '/', it must start with /, and cannot end with /.</p> <p>The null string indicates the label is not configured.</p>
ResponseZipFile	<p>Full path and name of the zip file for the response.</p> <p>Example:</p> <ul style="list-style-type: none"> flash:/lb/1.html chassis3#slot1#flash:/lb/1.html 	N/A	String, case-insensitive. Length: 1 to 255 characters.	<p>The column can be configured when ForwardType is Response (9) or there is no ForwardType column.</p> <p>When the column is configured, ForwardType becomes Resposne (9).</p> <p>The column cannot be configured when ZipFileWorkpath is not configured.</p>
FallbackResponseRawFile	<p>Full path and name of the raw file for the fallback action response.</p> <p>Example:</p> <ul style="list-style-type: none"> flash:/lb/1.html 	N/A	String, case-insensitive. Length: 1 to 255 characters.	The column can be configured when Fallback is Response(2).

Column name	Column description	Column type	Data type and restrictions	Remarks
	<ul style="list-style-type: none"> chassis3#s lot1#flash:/l b/1.html 			
TCPDropType	Type of closing TCP connection	N/A	Enumeration: <ul style="list-style-type: none"> 0—Fin close(default). 1—Rst close 	N/A

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

Column name	Column description	Column type	Data type and restrictions	Remarks
				configured, ForwardType becomes Resposne (9).
FileName	Full path and name of the file for the action response. Example: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Header Delete. 1—Header Insert. 2—Header Rewrite. 	N/A
Direction	Process direction.	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <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: <ul style="list-style-type: none">• 0—Generic.• 1—HTTP.• 2—Link-generic.• 3—DNS.• 4—RADIUS.• 5—MySQL.	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: <ul style="list-style-type: none">• 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>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
```



```

<ReferClass></ReferClass>
<AclNum></AclNum>
<AclName></AclName>
<ISP></ISP>
<User></User>
<UserGroup></UserGroup>
<IdentityDomain></IdentityDomain>
<InterfaceName></InterfaceName>
<PayloadExpression></PayloadExpression>
<CaseInsensitive></CaseInsensitive>
<Not></Not>
<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: <ul style="list-style-type: none"> 0—Source IPv4. 1—Source IPv6. 2—Class. 3—IPv4 ACL. 4—IPv6 ACL. 5—ISP. 6—User. 7—User group. 8—Interface. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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.	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
PayloadExpression	Regular expression matched the payload content.	N/A	String. Length: 0 to 255 characters	This column can be configured only when the type is payload (9).
CaseInsensitive	Whether the payload content expression is case insensitive	N/A	Enumeration: <ul style="list-style-type: none"> 0—Case sensitive (default) 1—Case insensitive 	This column can be configured only when the type is payload(9).
Not	Whether the matching condition is opposite	N/A	Enumeration: <ul style="list-style-type: none"> 0—Matching condition is not opposite (default) 1—Matching condition is opposite 	This column can be configured only when the type is payload(9).
MatchedTime	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
s	times the rule was matched.		Value range: 0 to $2^{64}-1$.	

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>
      <AclNum></AclNum>
      <AclName></AclName>
      <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
Type	Type of the match rule.	N/A	Enumeration: <ul style="list-style-type: none"> 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.
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: 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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 IPv6 address.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
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>
    <AclNum></AclNum>
    <AclName></AclName>
    <Domain></Domain>
    <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: <ul style="list-style-type: none"> 0—Source IPv4. 1—Source IPv6. 2—Destination IPv4. 3—Destination IPv6. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 4—Class. 5—IPv4 ACL. 6—IPv6 ACL. 7—Domain name. 8—User. 9—User group. 10—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
DstIpv4Address	Match rule of destination IPv4.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
DstIpv4PrefixLength	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.
DstIpv6PrefixLength	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	N/A	String, case-insensitive. Length: 1 to 255 characters.	The null string indicates the label is not configured.

Column name	Column description	Column type	Data type and restrictions	Remarks
	user or user group.			
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>
      <AclNum></AclNum>
      <AclName></AclName>
      <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: <ul style="list-style-type: none"> 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. 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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 expression matched the header range.	N/A	String. Length: 0 to 255 characters.	N/A
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: <ul style="list-style-type: none"> 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.
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

Column name	Column description	Column type	Data type and restrictions	Remarks
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>
      <AclNum></AclNum>
      <AclName></AclName>
      <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
Type	Type of the match rule.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Source IPv4. 1—Source IPv6. 2—Class. 3—IPv4 ACL. 4—IPv6 ACL. 5—RADIUS. 	N/A
Srclpv4Address	Match rule of Source IPv4.	N/A	String. Dotted decimal notation.	Example: 1.1.1.1.
Srclpv4PrefixLength	Mask length of the source IPv4 address.	N/A	Unsigned integer. Value range: 0 to 32.	N/A
Srclpv6Address	Match rule of source IPv6.	N/A	Hexadecimal string, colon-separated.	Example: 2::2.
Srclpv6PrefixLength	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/MySQLMatchRules

This table contains information about MySQL match rules.

XML structure

```
<LB>
  <MySQLMatchRules>
    <MySQLMatchRule>
      <Class></Class>
      <ID></ID>
      <Type></Type>
      <SrcIpv4Address></SrcIpv4Address>
      <SrcIpv4PrefixLength></SrcIpv4PrefixLength>
      <SrcIpv6Address></SrcIpv6Address>
      <SrcIpv6PrefixLength></SrcIpv6PrefixLength>
      <ReferClass></ReferClass>
      <AclNum></AclNum>
      <AclName></AclName>
      <SqlExpression></SqlExpression>
      <CaseInsensitive></CaseInsensitive>
      <Not></Not>
    </MySQLMatchRule>
  </MySQLMatchRules>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	MySQLMatchRules
Table type	Multi-instance table
Row name	MySQLMatchRule
Restrictions	Only MySQL 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: <ul style="list-style-type: none"> 0—Source IPv4. 1—Source IPv6. 2—Class. 3—IPv4 ACL. 4—IPv6 ACL. 5—SQL. 	N/A
SrcIpv4Address	Source IPv4 address to match.	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	Source IPv6 address to match.	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.	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 mutually 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 mutually 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).
SqlExpression	Regular expression used to match the SQL content.	N/A	String. Length: 1 to 255 characters	This column can be configured only when the type is sql(5).
CaseInsensitive	Whether the payload content	N/A	Enumeration: <ul style="list-style-type: none"> 0—Case sensitive 	This column can be configured only when the type is sql(5).

Column name	Column description	Column type	Data type and restrictions	Remarks
	expression is case insensitive		(default) <ul style="list-style-type: none"> 1—Case insensitive 	
Not	Whether the matching condition is opposite	N/A	Enumeration: <ul style="list-style-type: none"> 0—Matching condition is not opposite (default) 1—Matching condition is opposite 	This column can be configured only when the type is sql(5).

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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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>
    </Ipv4ISPAddressGroup>
  </Ipv4ISPAddressGroups>
</LB>
```



```

    <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 characters.	N/A
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	Each bit represents a origin. Values: <ul style="list-style-type: none"> 1—Import. 2—Manual. 4—Update. 	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	Each bit represents a origin. Values: <ul style="list-style-type: none"> 1—Import. 2—Manual. 4—Update. 	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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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	VRFPximityParameters
Table type	Multi-instance table
Row name	VRFPximityParameter
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
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">0—TCP.	N/A
ProbeMode	Mode of the match probe.	N/A	Enumeration: <ul style="list-style-type: none">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: <ul style="list-style-type: none">0—TCP.	N/A
ProbeMode	Mode of the match probe.	N/A	Enumeration: <ul style="list-style-type: none">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

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
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: <ul style="list-style-type: none"> 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/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

Column name	Column description	Column type	Data type and restrictions	Remarks
BestLinkType	Type of the best link.	N/A	Enumeration: <ul style="list-style-type: none"> 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.
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: <ul style="list-style-type: none"> 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	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	proximity probe.		86400000. Unit: millisecond	
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: <ul style="list-style-type: none"> 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/Specifications

This table contains information about the LB function specification.

XML structure

<LB>


```

<Specifications>
  <SupportHotbackup></SupportHotbackup>
  <SupportSLB></SupportSLB>
  <SupportLBControllerType></SupportLBControllerType>
</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: <ul style="list-style-type: none"> true—Supported. false—Not supported. 	N/A
SupportSLB	SLB function is supported or not	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported. 	N/A
SupportLBControllerType	Controller function is supported or not	N/A	Boolean: <ul style="list-style-type: none"> 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>
  </ALG>
</LB>

```



```

<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: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
FtpEnable	Enable the FTP protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
H323Enable	Enable the H323 protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
IcmpEnable	Enable the ICMP protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
IlsEnable	Enable the ILS protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
MgcpEnable	Enable the MGCP	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	protocol service.		<ul style="list-style-type: none"> 1—Enable. 	
NbtEnable	Enable the NBT protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
PptpEnable	Enable the PPTP protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
RshEnable	Enable the RSH protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
RtspEnable	Enable the RTSP protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
SccpEnable	Enable the SCCP protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
SipEnable	Enable the SIP protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
SqlnetEnable	Enable the SQLNET protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
TftpEnable	Enable the TFTP protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
XdmcpEnable	Enable the XDMCP protocol service.	N/A	Enumeration: <ul style="list-style-type: none"> 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>
    </ProximityStat>
  </ProximityStats>
</LB>

```



```

    <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 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.
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>
    </LimitRule>
  </LimitRules>
</LB>
```



```

    <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
AclVersion	Version of ACL	N/A	Enumeration: <ul style="list-style-type: none"> 1—IPv4. 2—IPv6. 	N/A
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	Name of the ACL.	N/A	String, case-insensitive. Length: 1 to 63 characters.	AclNum and AclName 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: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
PerSource	Enable the per-source connection	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	limit.			
PerService	Enable the per-service connection limit.	N/A	Enumeration: <ul style="list-style-type: none"> 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>
      <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: <ul style="list-style-type: none"> 0—Configure. 1—Auto. 	N/A
RouterInterface	Name of the router interface.	N/A	String. Case insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 47 characters.	
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
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: <ul style="list-style-type: none"> 0—Not configured. 1—Shutdown. 2—Slow-shutdown. 	N/A
ProbeSuccessCriteria	Probe success criteria for the	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	real server.		$2^{32}-1$. By default, the value is 0 which indicates that probe success criteria is all.	
MaxConnect ionLimit	Maximum connections limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
RateLimitCo nnection	Maximum connections rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
RateLimitBa ndwidth	Maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
InRateLimit Bandwidth	Inbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
OutRateLimi tBandwidth	Outbound maximum bandwidth rate limit number.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
BandwidthB usyRatio	Total 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
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 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> • 0—Unavailable. • 1—Available. • 2—Slow-shutdown. • 3—Shutdown. • 4—Probe-failed. • 5—Standby. • 6—Ramp. • 8—Busy. • 9—Unknown. 	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: <ul style="list-style-type: none"> • 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
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: <ul style="list-style-type: none"> 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>
    </LinkStat>
  </LinkStats>
</LB>

```



```

    <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.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 255.	
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
DownstreamPKTs	Number of packets that the link received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
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 $2^{32}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Unit: KB/s.	
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>

```



```
</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: <ul style="list-style-type: none"> • 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. 	N/A
HashIpv4Pr	Length of IPv4	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
efixLength	address mask for hash algorithm.		Value range: 0 to 32.	
HashIpv6PrefixLength	Length of IPv6 address prefix for hash algorithm.	N/A	Unsigned integer. Value range: 0 to 128.	N/A
SelectLinkMainNumber	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
SlowOnlineEnable	Enable the link group slow online.	N/A	Enumeration: <ul style="list-style-type: none"> 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 farm.	N/A	Enumeration: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 	N/A
ProximityEnable	Enable the proximity.	N/A	Enumeration: <ul style="list-style-type: none"> 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
UpstreamP	Number of packets that	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
KTs	the link group sent.		Value range: 0 to $2^{64}-1$.	
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 sent.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$. Unit: Byte.	N/A
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	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	

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	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
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 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	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 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
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 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.
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: <ul style="list-style-type: none">0—Disable.1—Enable.	N/A
Fallback	Fallback action.	N/A	Enumeration: <ul style="list-style-type: none">0—No-response.1—Reject.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—Dns proxy. 	

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	Index	Unsigned integer. Value range: 0 to 255.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	holds the card.			
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 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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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 requests that the DNS listener received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	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>
      <State></State>
      <StickySynEnable></StickySynEnable>
      <StickySynType></StickySynType>
      <StickyGroup></StickyGroup>
      <Ipv4Address></Ipv4Address>
      <Ipv4PrefixLength></Ipv4PrefixLength>
      <Ipv6Address></Ipv6Address>
      <Ipv6PrefixLength></Ipv6PrefixLength>
    </DNSProxy>
  </DNSProxies>
</LB>

```



```
</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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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 link protection.	N/A	Enumeration: <ul style="list-style-type: none">0—Disable.1—Enable.	N/A
ConnSynEn	Enable the	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
able	connection synchronization.		<ul style="list-style-type: none"> 0—Disable. 1—Enable. 	
State	State of the DNS proxy.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 2—Disable. 	N/A
StickySynEnable	Enable the sticky synchronization.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
StickySynType	Sticky synchronization type.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Synchronize in failover group (default). 1—Synchronize global. 	This column can only be configured when the StickySynEnable is Enable (1).
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.
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>
    </DNSProxyStat>
  </DNSProxyStats>
</LB>

```



```

    <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	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	responses that the DNS proxy has dropped.		$2^{64}-1$.	
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: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
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
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: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 2—Probe-failed. 3—Busy. 4—Unknow. 	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: <ul style="list-style-type: none">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>
```

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	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	that the DNS server has received.		$2^{64}-1$.	
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 dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
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: <ul style="list-style-type: none"> 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	N/A	Unsigned integer. Value range: 0 to 128.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	for hash algorithm.			
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 is available through probes.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
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: <ul style="list-style-type: none"> 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
SentResponse	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ses	DNS responses that the DNS server pool has sent.		Value range: 0 to $2^{64}-1$.	

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: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
NatEnable	Enable the NAT log of LB.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
BandwidthBusyEnable	Enable the bandwidth busy log of LB.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disable (default). 1—Enable. 	N/A

LB/ServerFarmMembers

This table contains information about server farm member.

XML structure

```
<LB>
  <ServerFarmMembers>
    <ServerFarmMember>
      <ServerFarm></ServerFarm>
      <RealServer></RealServer>
      <PortNumber></PortNumber>
      <Description></Description>
      <Weight></Weight>
      <Priority></Priority>
      <Shutdown></Shutdown>
      <MaxConnectionLimit></MaxConnectionLimit>
      <RateLimitConnection></RateLimitConnection>
      <RateLimitHTTPRequest></RateLimitHTTPRequest>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <State></State>
      <Ipv4Address></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <VRF></VRF>
      <ProbeList>
        <Probe></Probe>
        <NQADefaultPortEnable></NQADefaultPortEnable>
        <ProbeState></ProbeState>
      </ProbeList>
    </ServerFarmMember>
  </ServerFarmMembers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	ServerFarmMembers
Table type	Multi-instance table
Row name	ServerFarmMember
Restrictions	Only server farm member can be configured 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: 1 to 63 characters.	N/A
RealServer	Name of the server farm member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Description	Description of the server farm member.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Weight	Weight of the server farm member.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
Priority	Priority of the server farm member.	N/A	Unsigned integer. Value range: 1 to 8.	N/A
Shutdown	Shutdown state for the server farm member.	N/A	Enumeration: <ul style="list-style-type: none"> 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
RateLimitHTTPRequest	Maximum HTTP request rate limit.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: qps.	N/A
ProbeSuccessCriteria	Probe success criteria for the server farm member.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
State	State of the server farm member.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 2— 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Slow-shutdown. <ul style="list-style-type: none"> • 3—Shutdown. • 4—Probe-failed. • 5—Standby. • 6—Ramp. • 8—Busy. • 9—Unknown. • 10—Auto-shutdown 	
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.
VRF	VRF name	N/A	String, case-insensitive. Length: 0 to 31 characters.	The null string indicates public network.
ProbeList	Probe method list for the server farm member.	Data structure	Members include: <ul style="list-style-type: none"> • Probe. • ProbeState. 	N/A
Probe	Probe method for the server farm member.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
NQADefaultPortEnable	Enable detection using the default port of the NQA template.	N/A	Enumeration: <ul style="list-style-type: none"> • 0—Disable (default). • 1—Enable. 	N/A
ProbeState	State of the server farm member probe.	N/A	Enumeration: <ul style="list-style-type: none"> • 0—Not exist. • 1—Success. • 2—Failed. • 3—In the process. 	N/A

LB/LinkGroupMembers

This table contains information about link group member.

XML structure

```

<LB>
  <LinkGroupMembers>
    <LinkGroupMember>

```



```

<LinkGroup></LinkGroup>
<Link></Link>
<Description></Description>
<Weight></Weight>
<Priority></Priority>
<Shutdown></Shutdown>
<MaxConnectionLimit></MaxConnectionLimit>
<RateLimitConnection></RateLimitConnection>
<ProbeSuccessCriteria></ProbeSuccessCriteria>
<State></State>
<RouterType></RouterType>
<RouterInterface></RouterInterface>
<RouterIpv4Address></RouterIpv4Address>
<RouterIpv6Address></RouterIpv6Address>
<VRF></VRF>
<ProbeList>
  <Probe></Probe>
  <ProbeState></ProbeState>
</ProbeList>
</LinkGroupMember>
</LinkGroupMembers>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	LinkGroupMembers
Table type	Multi-instance table
Row name	LinkGroupMember
Restrictions	Only link group member can be configured 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: 1 to 63 characters.	N/A
Link	Name of the link group member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description	Description of the link group	N/A	String.	The null string indicates the label is

Column name	Column description	Column type	Data type and restrictions	Remarks
	member.		Length: 0 to 127 characters.	not configured.
Weight	Weight of the link group member.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	N/A
Priority	Priority of the link group member.	N/A	Unsigned integer. Value range: 1 to 8. By default, the value is 4.	N/A
Shutdown	Shutdown state for the link group member.	N/A	Enumeration: <ul style="list-style-type: none"> • 0—Not configured (default). • 1—Shutdown. • 2—Slow-shutdown. 	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
ProbeSuccessCriteria	Probe success criteria for the link group member.	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
State	State of the link group member.	N/A	Enumeration: <ul style="list-style-type: none"> • 0—Unavailable. • 1—Available. • 2—Slow-shutdown. • 3—Shutdown. • 4—Probe-failed. • 5—Standby. • 6—Ramp. • 8—Busy. • 9—Unknown. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
RouterType	Type of router	N/A	Enumeration: <ul style="list-style-type: none"> 0—Configure 1—Auto 	N/A
RouterInterface	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 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. If the router interface is configured,the IPV4 is not supported.
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. If the router interface is configured,the IPV6 is not supported.
VRF	VRF name.	N/A	String, Length: 0 to 31 characters. By default, no VRF is specified.	The null string indicates public network.
ProbeList	Probe method list for the link group member.	Data structure	Members include: <ul style="list-style-type: none"> Probe. ProbeState. 	N/A
Probe	Probe method for the link group member.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
ProbeState	State of the link group member probe.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Not exist. 1—Success. 2—Failed. 3—In the process. 	N/A

LB/DNSServerPoolMembers

This table contains information about DNS server pool member.

XML structure

```
<LB>
  <DNSServerPoolMembers>
    <DNSServerPoolMember>
      <DNSServerPool></DNSServerPool>
      <DNSServer></DNSServer>
      <PortNumber></PortNumber>
      <Description></Description>
      <Weight></Weight>
      <Priority></Priority>
      <ProbeSuccessCriteria></ProbeSuccessCriteria>
      <State></State>
      <Ipv4Address ></Ipv4Address>
      <Ipv6Address></Ipv6Address>
      <ProbeList>
        <Probe></Probe>
        <ProbeState></ProbeState>
      </ProbeList>
    </DNSServerPoolMember>
  </DNSServerPoolMembers>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	DNSServerPoolMembers
Table type	Multi-instance table
Row name	DNSServerPoolMember
Restrictions	Only DNS server pool member can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSServer Pool	Name of the DNS server pool.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DNSServer	Name of the DNS server pool member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PortNumber	Number of port.	Index	Unsigned integer. Value range: 0 to 65535.	N/A
Description	Description of the DNS server pool member.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Weight	Weight of the DNS server pool member.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 100.	N/A
Priority	Priority of the DNS server pool member.	N/A	Unsigned integer. Value range: 1 to 8. By default, the value is 4.	N/A
ProbeSuccessCriteria	Probe success criteria for the DNS server pool member.	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
State	State of the DNS server pool member.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 2—Probe-failed. 3—Busy. 4—Unknown. 	N/A
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.
ProbeList	Probe method list for the DNS server pool member.	Data structure	Members include: <ul style="list-style-type: none"> Probe. ProbeState. 	N/A
Probe	Probe method for the DNS server pool member.s	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
ProbeState	State of the DNS server pool member	N/A	Enumeration: <ul style="list-style-type: none"> 0—Not exist. 1—Success. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	probe.		<ul style="list-style-type: none"> 2—Failed. 3—In the process. 	

LB/ServerFarmMemberStats

This table contains stat information about server farm member.

XML structure

```

<LB>
  <ServerFarmMemberStats>
    <ServerFarmMemberStat>
      <ServerFarm></ServerFarm>
      <RealServer></RealServer>
      <PortNumber></PortNumber>
      <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>
      <RstPackets></RstPackets>
      <MaxRstPackets></MaxRstPackets>
      <RstProtectRetryTimes></RstProtectRetryTimes>
      <MaxRstProtectRetryTimes></MaxRstProtectRetryTimes>
      <ZeroWindowPackets></ZeroWindowPackets>
      <MaxZeroWindowPackets></MaxZeroWindowPackets>
      <ZeroWindowProtectRetryTimes></ZeroWindowProtectRetryTimes>

```



```

    <MaxZeroWindowProtectRetryTimes></MaxZeroWindowProtectRetryTimes>
    <AbnormalURLTimes></AbnormalURLTimes>
    <MaxAbnormalURLTimes></MaxAbnormalURLTimes>
  </ServerFarmMemberStat>
</ServerFarmMemberStats>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ServerFarmMemberStats
Table type	Multi-instance table
Row name	ServerFarmMemberStat
Restrictions	Only stats of server farm member 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
RealServer	Name of the server farm member.	Index	String, case-insensitive. Length: 0 to 63 characters.	N/A
PortNumber	Number of 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.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TotalConnections	Total connections that the server farm member received.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ActiveConnections	Active connections	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	that the server farm member received.		Value range: 0 to $2^{32}-1$.	
MaxConnections	Max connections that the server farm member received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
ConnectionsPerSec	Connections per second that the server farm member received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
MaxConnectionPerSec	Max connections per second that the server farm member received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
ServerSidePKTIn	Number of packets that the server farm member received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ServerSidePKTOut	Number of packets that the server farm member sent.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedPackets	Number of packets that the server farm member dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ServerSideBytesIn	Number of bytes that the server farm member 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 member sent.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$. Unit: Byte.	N/A
Bandwidth	Bandwidth of the server farm member.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
MaxBandwidth	Max bandwidth of the server farm member.	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 member received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedRequests	Number of requests that the server farm member dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
SentResponses	Number of responses that the server farm member sent to device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedResponses	Number of responses that the server farm member dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
InBandwidth	Inbound Bandwidth of the server farm member.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
OutBandwidth	Outbound Bandwidth of the server farm member.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
InMaxBandwidth	Inbound Max bandwidth of the server farm member.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
OutMaxBandwidth	Outbound Max bandwidth of the server farm member.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
RstPackets	RST packets	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
MaxRstPackets	Maximum number of RST packets	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
RstProtectRetryTimes	RST protection times	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
MaxRstProtectRetryTimes	Maximum RST protection times	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ZeroWindowPackets	Zero-window packets	N/A	Unsigned integer. Value range: 0 to 100. Unit: %	N/A
MaxZeroWindowPackets	Maximum number of zero-window packets	N/A	Unsigned integer. Value range: 0 to 100. Unit: %	N/A
ZeroWindowProtectRetryTimes	Zero-window protection times	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
MaxZeroWindowProtectRetryTimes	Maximum zero-window protection times	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
AbnormalURLTimes	Times of abnormal URLs	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
MaxAbnormalURLTimes	Maximum times of abnormal URLs	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A

LB/LinkGroupMemberStats

This table contains stat information about link group member.

XML structure

```

<LB>
  <LinkGroupMemberStats>
    <LinkGroupMemberStat>
      <LinkGroup></LinkGroup>
      <Link></Link>
      <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>
  </LinkGroupMemberStat>
</LinkGroupMemberStats>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	LinkGroupMemberStats
Table type	Multi-instance table
Row name	LinkGroupMemberStat
Restrictions	Only stats of link group member 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
Link	Name of the link group member.	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 member received.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ActiveConnections	Active connections	N/A	Unsigned integer. Value range: 0 to	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	that the link group member received.		$2^{32}-1$.	
MaxConnections	Max connections that the link group member received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
Connections PerSec	Connections per second that the link group member received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
MaxConnectionPerSec	Max connections per second that the link group member received.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: cps.	N/A
Downstream PKTs	Number of packets that the link group member received from device.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
UpstreamPKTs	Number of packets that the link group member sent.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
DroppedPackets	Number of packets that the link group member dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
Downstream Traffic	Number of bytes that the link group member 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 member sent.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$. Unit: Byte.	N/A
Bandwidth	Bandwidth of the link group member.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
MaxBandwidth	Max bandwidth of the link group member.	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
InBandwidth	Inbound Bandwidth of the link group member.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
OutBandwidth	Outbound Bandwidth of the link group member.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
InMaxBandwidth	Inbound Max bandwidth of the link group member.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A
OutMaxBandwidth	Outbound Max bandwidth of the link group member.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$. Unit: KB/s.	N/A

LB/DNSServerPoolMemberStats

This table contains stat information about DNS server pool member.

XML structure

```

<LB>
  <DNSServerPoolMemberStats>
    <DNSServerPoolMemberStat>
      <DNSServerPool></DNSServerPool>
      <DNSServer></DNSServer>
      <PortNumber></PortNumber>
      <ChassisID></ChassisID>
      <SlotID></SlotID>
      <CPUID></CPUID>
      <ReceivedRequests></ReceivedRequests>
      <DroppedRequests></DroppedRequests>
      <ReceivedResponses></ReceivedResponses>
      <DroppedResponses></DroppedResponses>
      <SentResponses></SentResponses>
    </DNSServerPoolMemberStat>
  </DNSServerPoolMemberStats>
</LB>

```


Table description

Item	Description
Feature name	LB
Table name	DNSServerPoolMemberStats
Table type	Multi-instance table
Row name	DNSServerPoolMemberStat
Restrictions	Only stats of DNS server pool member 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
DNSServer	Name of the DNS server pool member.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
PortNumber	Number of 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.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
ReceivedRequests	Number of DNS requests that the DNS server pool member 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 member has dropped.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A
ReceivedResponses	Number of DNS responses that	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the DNS server pool member has received.			
DroppedResponses	Number of DNS responses that the DNS server pool member 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 member has sent.	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	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 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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>
      <Description></Description>
      <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
Description	Description information for the RST probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
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

LB/ISPWhoisMntners

This table contains information about ISP maintainer objects.

XML structure

```

<LB>
  <ISPWhoisMntners>
    <ISPWhoisMntner>
      <ISPName></ISPName>
      <WhoisMntner></WhoisMntner>
      <Origin></Origin>
    </ISPWhoisMntner>
  </ISPWhoisMntners>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ISPWhoisMntners
Table type	Multi-instance table

Row name	ISPWhoisMntner
Restrictions	Only ISP whois maintainer objects can be gotten by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ISPName	Name of the ISP.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
WhoisMntner	Name of the whois maintainer object.	Index	String, case-sensitive. Length: 1 to 63 characters.	N/A
Origin	Origin of ISP whois maintainer object.	N/A	Enumeration: <ul style="list-style-type: none"> • 1—Import. • 2—Manual. • 3—Manual and import. 	N/A

LB/ISPUpdate

This table contains information about ISP update.

XML structure

```

<LB>
  <ISPUpdate>
    <Enable></Enable>
    <Frequency></Frequency>
    <Type></Type>
    <Domain></Domain>
    <Ipv4Address></Ipv4Address>
    <SuccessUpdateTime></SuccessUpdateTime>
    <UpdateTime></UpdateTime>
    <UpdateCount></UpdateCount>
    <UpdateResult></UpdateResult>
  </ISPUpdate>
</LB>

```


Table description

Item	Description
Feature name	LB
Table name	ISPUpdate
Table type	Single-instance table
Row name	N/A
Restrictions	Only ISP update can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Enable	Enable ISP update.	N/A	Enumeration: <ul style="list-style-type: none">0—Disable.1—Enable.	N/A
Frequency	Frequency of ISP update.	N/A	Enumeration: <ul style="list-style-type: none">0—Per-day.1—Per-week.2—Per-month.	N/A
Type	Type of the whois server.	N/A	Enumeration: <ul style="list-style-type: none">0—Domain.1—IPv4 address.	N/A
Domain	Domain of the maintainer object.	N/A	String, case-insensitive. Length: 1 to 253 characters.	The null string indicates the label is not configured.
Ipv4Address	Address of the maintainer object.	N/A	String. Dotted decimal notation.	The null string indicates the label is not configured.
SuccessUpdateTime	Last successful update time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
UpdateTime	Last update time.	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
UpdateCount	Update count.	N/A	Unsigned integer. Value range: 0 to $2^{32}-1$.	N/A
UpdateResult	Result of ISP update.	N/A	Enumeration: <ul style="list-style-type: none">0—Success.1—Connection error.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—Connection abort. 3—DNS error. 4—Initial. 	

LB/DNSCachesGlobalCfg

This table contains information about DNS global configuration.

XML structure

```
<LB>
  <DNSCachesGlobalCfg>
    <Timeout></Timeout>
  </DNSCachesGlobalCfg>
</LB>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Timeout	Aging time of DNS cache.	Index	Unsigned integer. Value range: 1 to 1440. Unit: minute	N/A

LB/RSTProbeTemplate

This table contains information about RST probe template.

XML structure

```
<LB>
```



```

<RSTProbeTemplates>
  <RSTProbeTemplate>
    <Name></Name>
    <Description></Description>
    <TimeInterval></TimeInterval>
    <PacketLimit></PacketLimit>
    <ProtectAction></ProtectAction>
    <BusyTimeout></BusyTimeout>
    <RetryTimes></RetryTimes>
  </RSTProbeTemplate>
</RSTProbeTemplates>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	RSTProbeTemplates
Table type	Multi-instance table
Row name	RSTProbeTemplate
Restrictions	Only RST probe template can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the RST probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description information for the RST probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
TimeInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 5 to 255. By default, the value is 10. Unit: second.	N/A
PacketLimit	Packet limit of RST probe template.	N/A	Unsigned integer: Value range: 1 to 4294967295. By default, the value is 1000000.	N/A.
ProtectAction	Protect action of RST probe template.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Busy 	N/A.

Column name	Column description	Column type	Data type and restrictions	Remarks
			(default). • 1—Auto-shutdown.	
BusyTimeout	Busy time of real server.	N/A	Unsigned integer. Value range: 5 to 3600. By default, the value is 30. Unit: second.	N/A.
RetryTimes	Busy protection times.	N/A	Unsigned integer. Value range: 0 to 255. By default, the value is 0.	N/A.

LB/ZeroWindowProbeTemplate

This table contains information about Zero Window probe template.

XML structure

```

<LB>
  <ZeroWindowProbeTemplates>
    <ZeroWindowProbeTemplate>
      <Name></Name>
      <Description></Description>
      <TimeInterval></TimeInterval>
      <RatioLimit></RatioLimit>
      <ProtectAction></ProtectAction>
      <BusyTimeout></BusyTimeout>
      <RetryTimes></RetryTimes>
    </ZeroWindowProbeTemplate>
  </ZeroWindowProbeTemplates>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ZeroWindowProbeTemplates
Table type	Multi-instance table
Row name	ZeroWindowProbeTemplate
Restrictions	Only zero window probe template can be configured by this table.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Name of the zero window probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description information for the zero window probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
TimeInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 5 to 255. By default, the value is 10. Unit: second.	N/A
RatioLimit	Ratio limit of zero window probe template.	N/A	Unsigned integer: Value range: 1 to 100. By default, the value is 40. Unit: %.	N/A.
Protection	Protection action of zero window probe.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Busy (default). 1—Auto-shutdown. 	N/A.
BusyTimeout	Busy time of real server.	N/A	Unsigned integer. Value range: 5 to 3600. By default, the value is 30. Unit: second.	N/A.
RetryTimes	Busy protection times.	N/A	Unsigned integer. Value range: 0 to 255. By default, the value is 0.	N/A.

LB/ProbeTemplateSummaries

This table contains summary information about probe template.

XML structure

```

<LB>
  <ProbeTemplateSummaries>
    <ProbeTemplateSummary>

```



```

    <Name></Name>
    <Type></Type>
  </ProbeTemplateSummary>
</ProbeTemplateSummaries>
</LB>

```

Table description

Item	Description
Feature name	LB
Table name	ProbeTemplateSummaries
Table type	Multi-instance table
Row name	ProbeTemplateSummary
Restrictions	Only probe template summary information 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 probe template.	N/A	Enumeration: <ul style="list-style-type: none"> 0—ICMP. 1—RST. 2—ZEROWINDOW. 3—HTTPPASSIVE 	N/A

LB/ProbeTemplate

This table contains information about probe template that is used for proximity.

XML structure

```

<LB>
  <ProbeTemplates>
    <ProbeTemplate>
      <Name></Name>
      <Description></Description>
      <Type></Type>
      <Frequency></Frequency>
      <Timeout></Timeout>
    </ProbeTemplate>
  </ProbeTemplates>
</LB>

```



```
</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
Description	Description information for the probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
Type	Type of the probe template.	N/A	Enumeration: <ul style="list-style-type: none"> 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: 1 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

LB/HTTPPassiveProbeTemplate

This table contains information about an HTTP passive probe template.

XML structure

```
<LB>
  <HTTPPassiveProbeTemplates>
    <HTTPPassiveProbeTemplate>
      <Name></Name>
      <Description></Description>
      <MonitorInterval></MonitorInterval>
      <URLThreshold></URLThreshold>
      <Timeout></Timeout>
      <URLList>
        <CheckUrl></CheckUrl>
      </URLList>
      <StatusCodeList>
        <StatusCode></StatusCode>
      </StatusCodeList>
    </HTTPPassiveProbeTemplate>
  </HTTPPassiveProbeTemplates>
</LB>
```

Table description

Item	Description
Feature name	LB
Table name	HTTPPassiveProbeTemplates
Table type	Multi-instance table
Row name	HTTPPassiveProbeTemplate
Restrictions	Only HTTP passive probe template 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 HTTP passive probe template.	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Description	Description information for the HTTP passive probe template.	N/A	String. Length: 0 to 127 characters.	The null string indicates the label is not configured.
MonitorInterval	Monitor time interval.	N/A	Unsigned integer. Value range: 1 to 5.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			By default, the value is 1. Unit: second.	
URLThreshoId	URL threshold of the HTTP passive probe template.	N/A	Unsigned integer: Value range: 1 to 4294967295. By default, the value is 10000.	N/A.
Timeout	Response timeout of the HTTP passive probe template.	N/A	Unsigned integer. Value range: 1 to 255. By default, the value is 5. Unit: second.	N/A
URLList	URL list for the HTTP passive probe template.	Data structure	Members include: URL.	N/A
CheckUrl	URL for the HTTP passive probe template.	N/A	String. Length: 1 to 255 characters.	A URL list can contain a maximum of 10 URLs.
StatusCodeList	Status code list for the HTTP passive probe template.	Data structure	Members include: StatusCode.	N/A
StatusCode	Status code for the HTTP passive probe template.	N/A	Unsigned integer.	A status code list can contain a maximum of 10 status codes.

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LB

ServerFarmMemberStatus event

This event is used to report server farm member status information.

XML structure for event subscription

```
<ServerFarmMemberStatusEvent>
  <ServerFarmMember>
    <ServerFarm></ServerFarm>
    <RealServer></RealServer>
    <PortNumber></PortNumber>
  </ServerFarmMember>
</ServerFarmMemberStatusEvent>
```

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>LB</stream>
    <filter type="subtree">
      <ServerFarmMemberStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/LB:1.0">
        <ServerFarmMember>
          <ServerFarm></ServerFarm>
          <RealServer></RealServer>
          <PortNumber></PortNumber>
        </ServerFarmMember>
      </ServerFarmMemberStatusEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	MemberStatus
Event name	ServerFarmMemberStatusEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/LB:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
ServerFarm	Name of the server farm.	String, case insensitive. Length: 1 to 63 characters.	No

Column name	Column description	Data type and restrictions	Support for extended queries
RealServer	Name of the server farm member.	String, case insensitive. Length: 1 to 63 characters.	No
PortNumber	Number of the port.	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```

<ServerFarmMemberStatusEvent>
  <ServerFarmMember>
    <ServerFarm></ServerFarm>
    <RealServer></RealServer>
    <PortNumber></PortNumber>
    <State></State>
  </ServerFarmMember>
</ServerFarmMemberStatusEvent>

```

Example:

```

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ServerFarmMemberStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/LB:1.0">
    <ServerFarmMember>
      <ServerFarm></ServerFarm>
      <RealServer></RealServer>
      <PortNumber></PortNumber>
      <State></State>
    </ServerFarmMember>
  </ServerFarmMemberStatusEvent>
</notification>

```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
ServerFarm	Name of the server farm.	String, case insensitive. Length: 1 to 63 characters.	No
RealServer	Name of the server farm member.	String, case insensitive. Length: 1 to 63 characters.	No
PortNumber	Number of the port.	Unsigned integer. Value range: 0 to 65535.	No
State	State of the server farm member.	Enumeration: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 2—Slow-shutdown. 3—Shutdown. 4—Probe-failed. 5—Standby. 	No

Column name	Column description	Data type and restrictions	Support for extended queries
		<ul style="list-style-type: none"> 6—Ramp. 8—Busy. 9—Unknown. 10—Auto-shutdown 	

LinkGroupMemberStatus event

This event is used to report link group member status information.

XML structure for event subscription

```
<LinkGroupMemberStatusEvent>
  <LinkGroupMember>
    <LinkGroup></LinkGroup>
    <Link></Link>
  </LinkGroupMember>
</LinkGroupMemberStatusEvent>
```

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>LB</stream>
    <filter type="subtree">
      <LinkGroupMemberStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/LB:1.0">
        <LinkGroupMember>
          <LinkGroup></LinkGroup>
          <Link></Link>
        </LinkGroupMember>
      </LinkGroupMemberStatusEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	MemberStatus
Event name	LinkGroupMemberStatusEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/LB:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
LinkGroup	Name of the link group.	String, case insensitive. Length: 1 to 63 characters.	No
Link	Name of the link group member.	String, case insensitive. Length: 1 to 63 characters.	No

XML structure for event report

```
<LinkGroupMemberStatusEvent>
  <LinkGroupMember>
    <LinkGroup></LinkGroup>
    <Link></Link>
    <State></State>
  </LinkGroupMember>
</LinkGroupMemberStatusEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <LinkGroupMemberStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/LB:1.0">
    <LinkGroupMember>
      <LinkGroup></LinkGroup>
      <Link></Link>
      <State></State>
    </LinkGroupMember>
  </LinkGroupMemberStatusEvent>
</notification>
```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
LinkGroup	Name of the link group.	String, case insensitive. Length: 1 to 63 characters.	No
Link	Name of the link group member.	String, case insensitive. Length: 1 to 63 characters.	No
State	State of the link group member.	Enumeration: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 2—Slow-shutdown. 3—Shutdown. 4—Probe-failed. 5—Standby. 6—Ramp. 8—Busy. 9—Unknown. 	No

Column name	Column description	Data type and restrictions	Support for extended queries
		<ul style="list-style-type: none"> 10—Auto-shutdown 	

DNSServerPoolMemberStatus event

This event is used to report DNS server pool member status information.

XML structure for event subscription

```
<DNSServerPoolMemberStatusEvent>
  <DNSServerPoolMember>
    <DNSServerPool></DNSServerPool>
    <DNSServer></DNSServer>
    <PortNumber></PortNumber>
  </DNSServerPoolMember>
</DNSServerPoolMemberStatusEvent>
```

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>LB</stream>
    <filter type="subtree">
      <DNSServerPoolMemberStatusEvent
        xmlns="http://www.h3c.com/netconf/event:1.0/LB:1.0">
        <DNSServerPoolMember>
          <DNSServerPool></DNSServerPool>
          <DNSServer></DNSServer>
          <PortNumber></PortNumber>
        </DNSServerPoolMember>
      </DNSServerPoolMemberStatusEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	MemberStatus
Event name	DNSServerPoolMemberStatusEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/LB:1.0
Support for extended query	No

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
DNSServerPool	Name of the DNS server pool.	String, case insensitive. Length: 1 to 63 characters.	No
DNSServer	Name of the DNS server pool member.	String, case insensitive. Length: 1 to 63 characters.	No
PortNumber	Number of the port.	Unsigned integer. Value range: 0 to 65535.	No

XML structure for event report

```

<DNSServerPoolMemberStatusEvent>
  <DNSServerPoolMember>
    <DNSServerPool></DNSServerPool>
    <DNSServer></DNSServer >
    <PortNumber></PortNumber>
    <State></State>
  </DNSServerPoolMember>
</DNSServerPoolMemberStatusEvent>

```

Example:

```

<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <ServerFarmMemberStatusEvent xmlns="http://www.h3c.com/netconf/event:1.0/LB:1.0">
    <DNSServerPoolMember>
      <DNSServerPool></DNSServerPool>
      <DNSServer></DNSServer>
      <PortNumber></PortNumber>
      <State></State>
    </DNSServerPoolMember>
  </ServerFarmMemberStatusEvent>
</notification>

```

Columns

Column name	Column description	Data type and restrictions	Support for extended queries
DNSServerPool	Name of the DNS server pool.	String, case insensitive. Length: 1 to 63 characters.	No
DNSServer	Name of the DNS server pool member.	String, case insensitive. Length: 1 to 63 characters.	No
PortNumber	Number of the port.	Unsigned integer. Value range: 0 to 65535.	No
State	State of the DNS server pool member.	Enumeration: <ul style="list-style-type: none"> 0—Unavailable. 1—Available. 	No

Column name	Column description	Data type and restrictions	Support for extended queries
		<ul style="list-style-type: none"> • 2—Probe-failed. • 3—Busy. • 4—Unknown. 	

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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: <ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 2—FQDN. 	The value 2 for IpType is not supported currently. 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.	If the IpType value is 0, this column represents the IPv4 address of the server. If the IpType value is 1, this column represents the IPv6 address of the server. 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	N/A	Unsigned integer.	Default: 10 seconds.

Column name	Column description	Column type	Data type and restrictions	Remarks
	timeout period, the maximum time that the device waits for an LDAP response.		Value range: 5 to 20, in seconds.	
ProtocolVersion	LDAP protocol version.	N/A	Enumeration: <ul style="list-style-type: none"> 2—LDAPv2. 3—LDAPv3. 	Default: 3.
LoginDn	Administrator DN.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
LoginPassword	Administrator password.	N/A	String. Length: 1 to 128 characters.	N/A
SearchScope	User search scope.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> NameType. NameFormat. NameAttribute. ObjClassName. 	N/A
NameType	User name attribute type.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	<p>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.</p> <p>The NameAttribute column must be deleted together with the NameType column. However, the NameType column can be deleted without the NameAttribute column.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
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.
AaaAttrType	AAA attribute type.	N/A	Enumeration: <ul style="list-style-type: none">• 1—user-group.• 2—user-profile.

Contents

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Ldap/Schemes	1
XML structure	1
Table description.....	1
Columns.....	1
Ldap/Servers.....	2
XML structure	2
Table description.....	2
Columns.....	3
Ldap/AttributeMaps	5
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.

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: <ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 2—FQDN. 	The value 2 for IpType is not supported currently. 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.	If the IpType value is 0, this column represents the IPv4 address of the server. If the IpType value is 1, this column represents the IPv6 address of the server. 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	N/A	Unsigned integer. Value range: 5 to 20, in seconds.	Default: 10 seconds.

Column name	Column description	Column type	Data type and restrictions	Remarks
	an LDAP response.			
ProtocolVersion	LDAP protocol version.	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • NameType. • NameFormat. • NameAttribute. • ObjClassName. 	N/A
NameType	User name attribute type.	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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	N/A	Enumeration:

Column name	Column description	Column type	Data type and restrictions
	type.		<ul style="list-style-type: none"> • 1—user-group. • 2—user-profile.

Contents

- Ldap.....1
 - Ldap/Scheme.....1
 - Ldap/Servers.....1

Ldap

Ldap/Scheme

Message	Explanation
Maximum number of LDAP schemes already reached.	Maximum number of LDAP schemes already reached.
The LDAP scheme doesn't exist.	The LDAP scheme doesn't exist.
Operation failed due to system errors.	Operation failed due to system errors.

Ldap/Servers

Message	Explanation
Operation failed due to system errors.	Operation failed due to system errors.
Maximum number of LDAP servers already reached.	Maximum number of LDAP servers already reached.
The LDAP server doesn't exist.	The LDAP server doesn't exist.
Invalid IP address.	Invalid IP address.

Contents

- LDP.....1
 - LDP/ResetAllLDPs1
 - XML structure1
 - Table description.....1
 - Columns.....1

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

Contents

- LDP.....1
 - LDP/Base.....1
 - XML structure.....1
 - Table description.....1
 - Columns.....1
 - LDP/Interfaces1
 - XML structure.....2
 - Table description.....2
 - Columns.....2

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: <ul style="list-style-type: none">true—Enabled.false—Disabled(default).	N/A
LSPTrigger	Egress LSP trigger policy	N/A	Enumeration: <ul style="list-style-type: none">1—Default policy(default).2—ALL.3—Mapping.	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: <ul style="list-style-type: none">true—Enabled.false—Disabled(default).	N/A

Contents

LDP.....	1
LDP/Base.....	1
XML structure.....	1
Table description.....	1
Columns.....	1
LDP/Interfaces	1
XML structure.....	2
Table description.....	2
Columns.....	2

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: <ul style="list-style-type: none">true—Enabled.false—Disabled.	N/A
LSPTrigger	Egress LSP trigger policy	N/A	Enumeration: <ul style="list-style-type: none">1—Default policy(default).2—ALL.3—Mapping.4—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: <ul style="list-style-type: none">true—Enabled.false—Disabled.	N/A

Contents

- License1
 - License/Operations1
 - XML structure1
 - Table description.....1
 - Columns.....1

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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.

Contents

- License 1
 - License/Systems..... 1
 - XML structure 1
 - Table description..... 1
 - Columns..... 2
 - License/Summaries..... 3
 - XML structure 3
 - Table description..... 4
 - Columns..... 4
 - License/Features 7
 - XML structure 7
 - Table description..... 7
 - Columns..... 8

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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 1—invalid. • 2—installInChassis. • 3—installInSlot. • 4—installInCPU. 	N/A
ActivationFileStoragePath	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—invalid. 2—inuse. 3—usable. 4—expired. 5—uninstalled. 6—unusable. 	N/A
Installed	N/A	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 1—No license has been installed. • 2—Trial license has been installed. • 3—Purchased license has been installed. 	N/A

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Table description	8
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XML structure	9
Table description	9
Columns	9
LICMGR/X3Connection	10
XML structure	10
Table description	10
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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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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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XML structure	14
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Columns	15

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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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>
    <ConnectState></ConnectState>
  </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.
ConnectState	State of the TCP connection.	N/A	Boolean: <ul style="list-style-type: none">• true—Connected.• false—No connected.

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>
    <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>
    </Statistic>
  </PacketsStatistics>
</LICMGR>

```



```

    <PacketIn></PacketIn>
    <PacketOut></PacketOut>
    <ByteIn></ByteIn>
    <ByteOut></ByteOut>
  </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: <ul style="list-style-type: none"> 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>
    </Statistic>
  </X3PacketsStatistics>
</LICMGR>

```



```

    <PacketIn></PacketIn>
    <PacketOut></PacketOut>
    <ByteIn></ByteIn>
    <ByteOut></ByteOut>
    <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 $2^{64} - 1$.

Column name	Column description	Column type	Data type and restrictions
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 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: <ul style="list-style-type: none"> • 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.

Column name	Column description	Column type	Data type and restrictions
TransportPro	Transport protocol	N/A	Enumeration: <ul style="list-style-type: none"> • 1—All. • 2—TCP. • 3—UDP.
ApplicationType	Application type	N/A	Unsigned integer.

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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: <ul style="list-style-type: none">true—Enable.false—Disable.

Column name	Column description	Column type	Data type and restrictions
CDP	Whether to enable CDP.	N/A	Boolean: <ul style="list-style-type: none"> 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.
NoFityInterval	Notification interval for traps.	N/A	Unsigned integer. Value range: 5 to 3600. Unit: second.
Mode	Bridge mode.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enable. false—Disable. 	
CDP	Whether to enable CDP compatibility.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. CDP packets can be transmitted and received. false—Disable. 	
MEDTopoChange	Whether to enable LLDP-MED trapping.	N/A	Boolean: <ul style="list-style-type: none"> 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>

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: <ul style="list-style-type: none"> 1—Nearest bridge agent. 2—Nearest non-TPMR agent. 3—Nearest customer agent.
AdminStatus	LLDP operating mode of the interface.	Data structure	Members include: <ul style="list-style-type: none"> Tx. Rx.
Tx	Whether to enable the LLDP agent to only send LLDP frames.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
Rx	Whether to enable the LLDP agent to only receive LLDP frames.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Ethernet II encapsulation. 1—SNAP encapsulation.
AddressFormat	Management address format.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Number. 1—String.
RemoteChange	Whether to enable LLDP trapping.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Nearest bridge agent. 2—Nearest non-TPMR agent. 3—Nearest customer agent.
PortDesc	Whether to transmit port description TLVs.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
SysName	Whether to transmit system name TLVs.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
SysDesc	Whether to transmit system description TLVs.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
SysCap	Whether to transmit system capability TLVs.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
ManageAddress	Management address TLV information.	Data structure	Members include: <ul style="list-style-type: none"> SubType. AddressValue. Enable.
SubType	SubType of the management address.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Yes. false—No.
PVID	Whether to transmit port VLAN ID TLVs.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
ProtocolVLAN	Port and protocol VLAN ID TLV information.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Yes. false—No.
VLANName	VLAN name TLV information.	Data structure	Members include: <ul style="list-style-type: none"> VLANID. Enable.
VLANID	VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.
Enable	Whether to transmit VLAN name TLVs.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
DCBX	Whether to transmit DCBX TLVs.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
LinkAgg	Whether to transmit link aggregation TLVs.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
ManageVLAN	Management VLAN TLV information.	Data structure	Members include: <ul style="list-style-type: none"> VLANID. Enable.
VLANID	VLAN ID.	N/A	Unsigned integer. Value range: 1 to 4094.
Enable	Whether to transmit management VLAN TLVs.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
EVB	Whether to transmit EVB TLVs.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
QCN	Whether to transmit QCN TLVs.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
MACPHY	Whether to transmit MAC/PHY configuration/status TLVs.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
Power	Whether to transmit power via MDI TLVs.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
MaxFrame	Whether to transmit max frame size TLVs.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
MEDCapability	Whether to transmit MED capability TLVs.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.

Column name	Column description	Column type	Data type and restrictions
NetworkPolicy	Whether to transmit network policy TLVs.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
ExtPower	Whether to transmit extended power via MDI TLVs.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
Inventory	Whether to transmit inventory TLVs.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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

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: <ul style="list-style-type: none"> • 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.	
CA	Civic address information.	Data structure	Members include: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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.

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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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>
    <FastInterval></FastInterval>
    <ReInitDelay></ReInitDelay>
    <NotifyInterval></NotifyInterval>
    <Mode></Mode>
    <MaxCredit></MaxCredit>
  </GlobalStatus>
</LLDP>

```



```

    <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: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
CDP	Whether CDP is enabled.	N/A	Boolean: <ul style="list-style-type: none"> 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.
RelnitDelay	Re-initialization delay.	N/A	Unsigned integer. Value range: 1 to 10. Unit: second.
NofityInterval	Notification interval for traps.	N/A	Unsigned integer. Value range: 5 to 3600. Unit: second.

Column name	Column description	Column type	Data type and restrictions
Mode	Bridge mode.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> SubType. ID.
SubType	Chassis ID subtype.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true—Supported. • false—Not supported.
Repeater	Whether repeater is supported.	N/A	Boolean: <ul style="list-style-type: none"> • true—Supported. • false—Not supported.
Bridge	Whether bridge is supported.	N/A	Boolean: <ul style="list-style-type: none"> • true—Supported. • false—Not supported.
WLANAccessPoint	Whether WLAN AP is supported.	N/A	Boolean: <ul style="list-style-type: none"> • true—Supported. • false—Not supported.
Router	Whether router is supported.	N/A	Boolean: <ul style="list-style-type: none"> • true—Supported. • false—Not supported.
Telephone	Whether telephone is supported.	N/A	Boolean: <ul style="list-style-type: none"> • true—Supported. • false—Not supported.
DocsisCableDevice	Whether docsis cable device is supported.	N/A	Boolean: <ul style="list-style-type: none"> • true—Supported. • false—Not supported.
StationOnly	Whether station only is supported.	N/A	Boolean: <ul style="list-style-type: none"> • true—Supported. • false—Not supported.
CustomerBridge	Whether customer bridge is supported.	N/A	Boolean: <ul style="list-style-type: none"> • true—Supported. • false—Not supported.
ServiceBridge	Whether service bridge is supported.	N/A	Boolean: <ul style="list-style-type: none"> • true—Supported. • false—Not supported.

Column name	Column description	Column type	Data type and restrictions
TPMR	Whether TPMR is supported.	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported.
Enable	Enabled capabilities.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• true—Enabled.• false—Disabled.
CDP	Whether CDP compatibility is enabled.	N/A	Boolean: <ul style="list-style-type: none">• true—Enabled. CDP packets can be transmitted and received.• false—Disabled.
MEDTopoChange	Whether LLDP-MED trapping is enabled.	N/A	Boolean: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 1—Nearest bridge agent.• 2—Nearest non-TPMR agent.• 3—Nearest customer agent.
AdminStatus	LLDP operating mode of the interface.	Data structure	Members include: <ul style="list-style-type: none">• Tx.• Rx.
Tx	Whether an LLDP interface agent can only send LLDP frames.	N/A	Boolean: <ul style="list-style-type: none">• true—Yes.• false—No.
Rx	Whether an LLDP interface agent can only receive LLDP frames.	N/A	Boolean: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 0—Ethernet II encapsulation.• 1—SNAP encapsulation.
AddressFormat	Management address format.	N/A	Enumeration: <ul style="list-style-type: none">• 0—Number.• 1—String.
RemoteChange	Whether LLDP trapping is enabled.	N/A	Boolean: <ul style="list-style-type: none">• 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>

```



```

<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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
SysName	Whether the transmission of system name TLVs is enabled.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
SysCap	Whether the transmission of system capability TLVs is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
ManageAddress	Management address TLV information.	Data structure	Members include: <ul style="list-style-type: none"> SubType. AddressValue. Enable.
SubType	Subtype of the management address.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
PVID	Whether the transmission of port VLAN ID TLVs is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
Protocol/VLAN	Port and protocol VLAN ID TLV information.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
VLANName	VLAN name TLV information.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
LinkAgg	Whether the transmission of link aggregation TLVs is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
ManageVLAN	Management VLAN TLV information.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
EVB	Whether the transmission of EVB TLVs is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
QCN	Whether the transmission of QCN TLVs is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
MACPHY	Whether the transmission of MAC/PHY configuration/status TLVs is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
Power	Whether the transmission of power via MDI TLVs is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
MaxFrame	Whether the transmission of max frame size TLVs is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
MEDCapability	Whether the transmission of MED capability TLVs is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
NetworkPolicy	Whether the transmission of network policy TLVs is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
ExtPower	Whether the transmission of extended power via MDI TLVs is enabled.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> SubType. ID.
SubType	Subtype of the chassis ID	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> SubType. ID.
SubType	Subtype of the port ID	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Supported. false—Not supported.
Repeater	Whether repeater is supported.	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported.

Column name	Column description	Column type	Data type and restrictions
Bridge	Whether bridge is supported.	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported.
WLANAccessPoint	Whether WLAN AP is supported.	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported.
Router	Whether router is supported.	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported.
Telephone	Whether telephone is supported.	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported.
DocsisCableDevice	Whether docsis cable device is supported.	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported.
StationOnly	Whether station only is supported.	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported.
CustomerBridge	Whether customer bridge is supported.	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported.
ServiceBridge	Whether service bridge is supported.	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported.
TPMR	Whether TPMR is supported.	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported.
Enable	Enabled capabilities.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • Support. • Enable. • PortIndex. 	N/A
Support	Whether link aggregation is supported.	N/A	Boolean: <ul style="list-style-type: none"> • true—Supported. • false—Not supported. 	N/A
Enable	Whether link aggregation is enabled.	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• true—Supported.• false—Not supported.
Enable	Whether protocol VLAN is enabled.	N/A	Boolean: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • AutoNegSupport. • AutoNegEnable. • MAU.
AutoNegSupport	Whether autonegotiation is supported.	N/A	Boolean: <ul style="list-style-type: none"> • true—Supported. • false—Not supported.
AutoNegEnable	Whether autonegotiation is enabled.	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • PortClass. • Support. • Enable. • Pairs. • PairsCtrlAbility. • Classification.
PortClass	Port class.	N/A	Enumeration: <ul style="list-style-type: none"> • 0—PD. • 1—PSE.
Support	Whether PSE MDI power is supported.	N/A	Boolean: <ul style="list-style-type: none"> • true—Supported. • false—Not supported.
Enable	Whether PSE MDI power is enabled.	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled. • false—Disabled.
Pairs	Power supply mode.	N/A	Enumeration: <ul style="list-style-type: none"> • 1—Over signal wires. • 2—Over spare wires.
PairsCtrlAbility	Whether the PSE-PD pair control is available.	N/A	Boolean: <ul style="list-style-type: none"> • true—Yes. • false—No.
Classification	Power class.	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 1—Class I. • 2—Class II. • 3—Class III. • 4—Connectivity device.
Inventory	Device inventory information	Data structure	Members include: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • Source. • Priority. • Value.
Source	PSE power source	N/A	Enumeration: <ul style="list-style-type: none"> • 0—Unknown. • 1—Primary. • 2—Backup.

Column name	Column description	Column type	Data type and restrictions
Priority	Power priority	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • AppType. • UnknownFlag. • TagFlag. • VLANID. • L2priority • Dscp.
AppType	Application type.	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true—Yes. • false—No.
TagFlag	Whether the VLAN tag is used.	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> SubType. ID.
SubType	Subtype of the port ID	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">1—Nearest bridge agent.2—Nearest non-TPMR agent.3—Nearest customer agent.
SubType	Subtype of the management address	Index	Enumeration: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 1—Unknown. 2—IflIndex. 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Supported. false—Not supported.
Enable	Whether protocol VLAN is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
VLANName	VLAN name information.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Support. Enable. PortIndex.
Support	Whether link aggregation is supported.	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported.
Enable	Whether link aggregation is enabled.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • AutoNegSupport. • AutoNegEnable. • MAU.
AutoNegSupport	Whether autonegotiation is supported.	N/A	Boolean: <ul style="list-style-type: none"> • true—Supported. • false—Not supported.
AutoNegEnable	Whether autonegotiation is enabled.	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • PortClass. • Support. • Enable. • Pairs. • PairsCtrlAbility. • Classification.
PortClass	Port class.	N/A	Enumeration: <ul style="list-style-type: none"> • 0—PD. • 1—PSE.
Support	Whether PSE MDI power is supported.	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
Pairs	Power supply mode.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Over signal wires. 2—Over spare wires.
PairsCtrlAbility	Whether the PSE-PD pair control is available.	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
Classification	Power class.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • AppType. • UnknownFlag. • TagFlag. • VLANID. • L2priority • Dscp.
AppType	Application type.	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true—Yes. • false—No.
TagFlag	Whether the VLAN tag is used.	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> Source. Priority. Value.
Source	PSE power source.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Unknown. 1—Primary. 2—Backup.
Priority	Power priority.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• true—Enabled.• false—Disabled.
QCN	Whether QCN feature is customized..	N/A	Boolean: <ul style="list-style-type: none">• true—Enabled.• false—Disabled.
EVB	Whether EVB feature is customized..	N/A	Boolean: <ul style="list-style-type: none">• true—Enabled.• false—Disabled.

Contents

LLDP event stream	1
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XML structure for event subscription	1
XML structure for event report	1

LLDP event stream

LLDP event stream description.

NeighborEvent event

This event is used to report LLDP neighbor change information.

XML structure for event subscription

```
<NeighborEvent>
</NeighborEvent>
```

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>LLDP</stream>
    <filter type="subtree">
      <NeighborEvent xmlns="http://www.h3c.com/netconf/event:1.0/LLDP:1.0">
      </NeighborEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	LLDP
Event name	NeighborEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/LLDP:1.0
Support for extended query	No

XML structure for event report

```
<NeighborEvent>
  <IfName></IfName>
  <AgentID></AgentID>
  <NeighborChassisId ></NeighborChassisId>
  <NeighborPortId></NeighborPortId>
  <Neighborevent></Neighborevent>
</NeighborEvent>
```

Example:

```
<notification xmlns="urn:ietf:params:xml:ns:netconf:notification:1.0">
  <eventTime>2016-07-21T09:10:51</eventTime>
  <NeighborEvent xmlns="http://www.h3c.com/netconf/event:1.0/LLDP:1.0">
```



```

<IfName>GigabitEthernet0/0/4</IfName>
<AgentID>1</AgentID>
<NeighborChassisId>7002-c2bf-0200</NeighborChassisId>
<NeighborPortId>GigabitEthernet0/0/4</NeighborPortId>
<Neighborevent>1</Neighborevent>
</NeighborEvent>
</notification>

```

Table description

Column name	Column description	Data type and restrictions	Remarks
IfName	Interface name	String. Length: 0 to 47 characters.	N/A
AgentID	LLDP agent type	Enumeration <ul style="list-style-type: none"> 1 – Nearest bridge agent 2 – Nearest non-TPMR agent 3 – Nearest customer agent 	N/A
NeighborChassisId	Neighbor chassis ID	String. Length: 0 to 255 characters.	N/A
NeighborPortId	Neighbor port ID	String. Length: 0 to 255 characters.	N/A
Neighborevent	Neighbor event type	Enumeration <ul style="list-style-type: none"> 1 – LLDP neighbor creation 2 – LLDP neighbor deletion 	N/A

Contents

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Table description	2
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Login/Class/Roles	4
XML structure	4
Table description	4
Columns	4
Login/Line/Lines	5
XML structure	5
Table description	6
Columns	6
Login/Line/Roles	7
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: <ul style="list-style-type: none"> 1—Console. 2—TTY. 3—AUX. 4—VTY. 	The supported line class type depends on the device model.
AuthMode	Authentication mode.	N/A	Enumeration: <ul style="list-style-type: none"> 0—None. 1—Password 2—Scheme. 	<p>In FIPS mode, the authentication mode must be scheme.</p> <p>The following default settings apply:</p> <ul style="list-style-type: none"> In non-FIPS mode: <ul style="list-style-type: none"> 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. <p>⚠ 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.</p>
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: <ul style="list-style-type: none"> 0—SSH. 1—Telnet. 2—PAD. 5—All. 	<p>The following default settings apply:</p> <ul style="list-style-type: none"> In non-FIPS mode, all protocols are supported. In FIPS mode, SSH is supported. <p>This column is effective only when the ClassType value is 4 (VTY).</p> <p>If the ProtocolIn value is 0 (SSH), the AuthMode value must be 2 (scheme).</p> <p>Support for PAD depends on the device model.</p>

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: <ul style="list-style-type: none">• 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.	<p>You can assign a maximum of 64 user roles to a user line.</p> <p>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.)</p> <p>The following default settings apply (MDC- and context-capable devices):</p> <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—None. 1—Password 2—Scheme. 	<p>In FIPS mode, the authentication mode must be scheme.</p> <p>The following default settings apply:</p> <ul style="list-style-type: none"> In non-FIPS mode: <ul style="list-style-type: none"> 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. <p>⚠ 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.</p>

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: <ul style="list-style-type: none"> 0—SSH. 1—Telnet. 2—PAD. 5—All. 	<p>The following default settings apply:</p> <ul style="list-style-type: none"> In non-FIPS mode, all protocols are supported. In FIPS mode, SSH is supported. <p>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.</p>

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: <ul style="list-style-type: none"> 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.	<p>You can assign a maximum of 64 user roles to a user line.</p> <p>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.)</p> <p>The following default settings apply (MDC- and context-capable devices):</p> <ul style="list-style-type: none"> 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	3
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XML structure	5
Table description	5
Columns	5
Login/Line/Roles	6
XML structure	6
Table description	7
Columns	7
Login/Specification	8
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: <ul style="list-style-type: none"> 1—Console. 2—TTY. 3—AUX. 4—VTY. 	The supported line class type depends on the device model.
AuthMode	Authentication mode.	N/A	Enumeration: <ul style="list-style-type: none"> 0—None. 1—Password. 2—Scheme. 	<p>In FIPS mode, the authentication mode must be scheme.</p> <p>The following default settings apply:</p> <ul style="list-style-type: none"> In non-FIPS mode: <ul style="list-style-type: none"> 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. <p>! IMPORTANT:</p> <p>If the ProtocolIn value is 0, do not remove, delete, or replace this column. A violation will cause the system to report an error.</p>
ProtocolIn	Supported protocols.	N/A	Enumeration: <ul style="list-style-type: none"> 0—SSH. 1—Telnet. 2—PAD. 5—All. 	<p>The following default settings apply:</p> <ul style="list-style-type: none"> In non-FIPS mode, all protocols are supported. In FIPS mode, SSH is supported. <p>This column is effective only when the ClassType value is 4 (VTY).</p> <p>If the ProtocolIn value is 0 (SSH), the AuthMode value must be 2 (scheme).</p> <p>Support for PAD depends on the device model.</p>

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: <ul style="list-style-type: none"> 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.	<p>You can assign a maximum of 64 user roles to a user line.</p> <p>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.)</p> <p>The following default settings apply (MDC- and context-capable devices):</p> <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> • 0—None. • 1—Password. • 2—Scheme. 	<p>In FIPS mode, the authentication mode must be scheme.</p> <p>The following default settings apply:</p> <ul style="list-style-type: none"> • In non-FIPS mode: <ul style="list-style-type: none"> ○ 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. <p>! IMPORTANT:</p> <p>If the ProtocolIn value is 0, do not remove, delete, or replace this column. A violation will cause the system to report an error.</p>
ProtocolIn	Supported protocols.	N/A	Enumeration: <ul style="list-style-type: none"> • 0—SSH. • 1—Telnet. • 2—PAD. • 5—All. 	<p>The following default settings apply:</p> <ul style="list-style-type: none"> • In non-FIPS mode, all protocols are supported. • In FIPS mode, SSH is supported. <p>This column is effective only when the ClassType value is 4 (VTY).</p> <p>If the ProtocolIn value is 0 (SSH), the AuthMode value must be 2 (scheme).</p> <p>Support for PAD depends on the device model.</p>

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: <ul style="list-style-type: none">• 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.	<p>You can assign a maximum of 64 user roles to a user line.</p> <p>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.)</p> <p>The following default settings apply (MDC- and context-capable devices):</p> <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• NoneAuth.• PasswordAuth.	N/A
NoneAuth	Whether to support the none authentication mode.	N/A	Boolean: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> true. false. 	In FIPS mode, the none and password authentication modes are not supported.
ProtocolIn	Supported protocols.	Data structure	Members include: <ul style="list-style-type: none"> Telnet. Pad. 	N/A
Telnet	Whether to support Telnet.	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	In non-FIPS mode, Telnet and PAD are supported.
Pad	Whether to support PAD.	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	In FIPS mode, Telnet and PAD are not supported.

Contents

- Login1
 - Login/Header1
 - Login/Class/Classes1
 - Login/Class/Roles1
 - Login/Line/Lines1
 - Login/Line/Roles2

Login

Login/Header

Message	Explanation
The string must begin and end with the same character.	The string must begin and end with the same character. Please check your input.

Login/Class/Classes

Message	Explanation
Failed to set the line authentication method: The protocol is SSH. Please change the protocol first.	Failed to set the line authentication method: Please change the protocol first.
The device doesn't support PAD.	The device doesn't support PAD.
The command is available only for VTY lines.	The command is available only for VTY lines.
Can't set the protocol to SSH. Please change the authentication method to scheme first.	Can't set the protocol to SSH. Please change the authentication method to scheme first.

Login/Class/Roles

Message	Explanation
Maximum number of user roles already reached.	Maximum number of user roles already reached.
Can't delete the user role: The user role is the only user role for the user line.	Can't delete the user role: The user role is the only user role for the user line.
Can't specify the security-audit user role for user lines.	Can't specify the security-audit user role for user lines.
Can't specify user roles for user lines in FIPS mode.	Can't specify user roles for user lines in FIPS mode.
Can't configure the system predefined role.	Can't configure the system predefined role.

Login/Line/Lines

Message	Explanation
Failed to set the line authentication method: The protocol is SSH. Please change the protocol first.	Failed to set the line authentication method: Please change the protocol first.
The device doesn't support PAD.	The device doesn't support PAD.
The command is available only for VTY lines.	The command is available only for VTY lines.
Can't set the protocol to SSH.	Can't set the protocol to SSH. Please change the authentication

Please change the authentication method to scheme first.	method to scheme first.
----------------------------------------------------------	-------------------------

Login/Line/Roles

Message	Explanation
Maximum number of user roles already reached.	Maximum number of user roles already reached.
Can't delete the user role: The user role is the only user role for the user line.	Can't delete the user role: The user role is the only user role for the user line.
Can't specify the security-audit user role for user lines.	Can't specify the security-audit user role for user lines.
Can't specify user roles for user lines in FIPS mode.	Can't specify user roles for user lines in FIPS mode.
Can't configure the system predefined role.	Can't configure the system predefined role.

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 - Table description..... 1
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LPDT

LPDT/SetPortLoopMode

This table provides configuration of the loop protection action on a port of a PEX in an IRF 3.1 system. This table is for internal users only.

XML structure

```
<LPDT>
  <SetPortLoopMode>
    <IfIndex></IfIndex>
    <Block></Block>
    <NoLearning></NoLearning>
    <Confirm></Confirm>
  </SetPortLoopMode>
</LPDT>
```

Table description

Item	Description
Feature name	LPDT
Table name	SetPortLoopMode
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	N/A
Block	Whether to block the looped port	N/A	Enumeration: <ul style="list-style-type: none">0—Unblock.1—Block.	N/A
NoLearning	Action to take when a frame with an unknown source MAC address is received	N/A	Enumeration: <ul style="list-style-type: none">0—Forward.1—Disable MAC address learning.2—Drop.	N/A
Confirm	Check code	N/A	String. Length: 1 to 20 characters.	Fixed at lpdt action for 1br .

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 - LR/Interfaces.....1
 - XML structure.....1
 - Table description.....1
 - Columns.....1

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: <ul style="list-style-type: none">• 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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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: <ul style="list-style-type: none"> • 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
DelaydePkts	Number of delayed packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
PassdedBytes	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: <ul style="list-style-type: none"> • 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.

Contents

LR.....1

LR1

LR

LR

Message	Explanation
PIR should not be smaller than CIR. PIR的值不能小于CIR。	PIR should not be smaller than CIR. 限速配置峰值速率不能小于承诺信息速率。
CBS is not supported on the interface. 该接口不支持CBS配置。	CBS is not supported on the interface. 该接口不支持CBS配置。
EBS is not supported on the interface. 该接口不支持EBS配置。	EBS is not supported on the interface. 该接口不支持EBS配置。
PIR is not supported on the interface. 该接口不支持PIR配置。	PIR is not supported on the interface. 该接口不支持PIR配置。
The operation is not supported, because the interface belongs to an aggregation group. 设备不支持对加入聚合组的接口执行本操作。	The operation is not supported, because the interface belongs to an aggregation group. 设备不支持对加入聚合组的接口执行限速操作。

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XML structure.....	3
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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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">5—Multiport.6—Multicast.	If you do not specify this column, all status is set.

MAC/MacDelLearnMac

This table is used to delete a learned MAC address entry according to MAC address and VLAN ID.

XML structure

```
<MAC>
  <MacDelLearnMac>
    <DelLearnMac>
      <VLANID></VLANID>
      <MacAddress></MacAddress>
    </DelLearnMac>
  </MacDelLearnMac>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacDelLearnMac
Table type	Multi-instance table
Row name	DelLearnMac
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.

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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 5—Multiport. 6—Multicast. 	N/A
PortList	Port list of the MAC address	N/A	Base64 string.	<p>Bitmap of ports. the string length depends on the device port number.</p> <p>Supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface.</p> <p>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.</p>

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">1—high2—low	N/A

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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: <ul style="list-style-type: none"> • 0—Other. • 1—Security. • 2—Learned. • 3—Static. • 4—Blackhole. 	N/A
Aging	Aging time	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> true—Support. false—Not support.
SupportMacVLANLearnLimit	Supports for configuring the MAC learning limit for a VLAN.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> • 1—high • 2—low 	N/A

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MAC

MAC/MacUnicastTable

Message	Explanation
The configuration doesn't meet the requirements.	The configuration doesn't meet the requirements, please modify configuration under guidance.
Broadcast MAC address is not supported.	Broadcast MAC address is not supported, please modify configuration under guidance.
Multicast MAC address is not supported.	Multicast MAC address is not supported, please modify configuration under guidance.
Invalid MAC address.	Invalid MAC address configuration, please modify configuration under guidance.
Subinterface is not supported.	Subinterface is not supported, please modify configuration under guidance.
Maximum number of ports that can be configured with a multiport MAC address already reached.	Maximum number of ports that can be configured with a multiport MAC address already reached, please check configuration or specifications.
Maximum number of multicast and multiport MAC addresses already reached. 。	Maximum number of multicast and multiport MAC addresses already reached, please check configuration or specifications.
Maximum number of static MAC addresses already reached.	Maximum number of static MAC addresses already reached, please check configuration or specifications.
The MAC address already exists.	The MAC address already exists, please check MAC entry in device.
Some configured ports are not in the VLAN.	Some configured ports are not in the VLAN, please check vlan and port configuration.
The MAC address conflicts with another.	The MAC address conflicts with another, please check MAC entry.
The VLAN doesn't exist.	The VLAN doesn't exist.
The port is not assigned to the VLAN, or the VLAN is not permitted on the port.	The port is not assigned to the VLAN, or the VLAN is not permitted on the port. please check vlan and port configuration.

MAC/MacGroupTable

Message	Explanation
The configuration doesn't meet the requirements.	Invalid configuration, please modify configuration under guidance.
Invalid MAC address.	Invalid MAC address.
Maximum number of ports that can be configured at a time already reached.	Maximum number of ports that can be configured at a time already reached ,please check configuration or

	specifications
Maximum number of ports that can be configured with a multiport MAC address already reached.	Maximum number of ports that can be configured with a multiport MAC address already reached ,please check configuration or specifications
Maximum number of multicast and multiport MAC addresses already reached.	Maximum number of multicast and multiport MAC addresses already reached. please check configuration or specifications
Maximum number of static MAC addresses already reached.	Maximum number of static MAC addresses already reached, please check configuration or specifications
The MAC address already exists.	The MAC address already exists,please check MAC entry
Some configured ports are not in the VLAN.	Some configured ports are not in the VLAN, please check VLAN and port configuration.
The MAC address conflicts with another.	The MAC address conflicts with another. please check MAC configuration.
No port exists.	No port exists, please modify configuration under guidance.
Multicast and multiport MAC addresses are not supported.	Multicast and multiport MAC addresses are not supported, please modify configuration under guidance.
The VLAN doesn't exist.	The VLAN doesn't exist, please check vlan configuration

MAC/MacPort

Message	Explanation
Maximum number of ports that can be configured with a multiport MAC address already reached.	Maximum number of ports that can be configured with a multiport MAC address already reached,please check configuration or specifications
Maximum number of multicast and multiport MAC addresses already reached.	Maximum number of multicast and multiport MAC addresses already reached,please check configuration or specifications
Maximum number of static MAC addresses already reached.	Maximum number of static MAC addresses already reached,please check configuration or specifications
The MAC address already exists.	The MAC address already exists,please check MAC entry
Some configured ports are not in the VLAN.	Some configured ports are not in the VLAN,please check configuration.
The MAC address conflicts with another.	The MAC address conflicts with another, please check configuration.
The value is out of range.	The value is out of range, please modify configuration under guidance.

MAC/MacVLAN

Message	Explanation
The configuration doesn't meet the	Invalid configuration, please modify configuration under

requirements.	guidance.
Maximum number of ports that can be configured with a multiport MAC address already reached.	Maximum number of ports that can be configured with a multiport MAC address already reached, please check configuration or specifications
Maximum number of multicast and multiport MAC addresses already reached.	Maximum number of multicast and multiport MAC addresses already reached, please check configuration or specifications.
Maximum number of static MAC addresses already reached.	Maximum number of static MAC addresses already reached, please check configuration or specifications
The MAC address already exists.	The MAC address already exists, please check configuration.
Some configured ports are not in the VLAN.	Some configured ports are not in the VLAN, please modify configuration under guidance.
The MAC address conflicts with another.	The MAC address conflicts with another, please check configuration.
The VLAN doesn't exist.	The VLAN doesn't exist, please check vlan configuration
The value is out of range.	The value is out of range, please modify configuration under guidance.

MAC/MacFwdSrcCheck

Message	Explanation
Maximum number of ports that can be configured with a multiport MAC address already reached.	Maximum number of ports that can be configured with a multiport MAC address already reached, please check configuration or specifications.
Maximum number of multicast and multiport MAC addresses already reached.	Maximum number of multicast and multiport MAC addresses already reached, please check configuration or specifications.
Maximum number of static MAC addresses already reached.	Maximum number of static MAC addresses already reached, please check configuration or specifications.
The MAC address already exists.	The MAC address already exists, please check configuration.
Some configured ports are not in the VLAN.	Some configured ports are not in the VLAN, please modify configuration under guidance.
The MAC address conflicts with another.	The MAC address conflicts with another, please check configuration.

MAC/MacPortConfig

Message	Explanation
Maximum number of ports that can be configured with a multiport MAC address already reached.	Maximum number of ports that can be configured with a multiport MAC address already reached, please check configuration or specifications.
Maximum number of multicast and multiport	Maximum number of multicast and multiport MAC

MAC addresses already reached.	addresses already reached, please check configuration or specifications
Maximum number of static MAC addresses already reached.	Maximum number of static MAC addresses already reached, please check configuration or specifications
The MAC address already exists.	The MAC address already exists, please check configuration.
Some configured ports are not in the VLAN.	Some configured ports are not in the VLAN, please modify configuration under guidance.
The MAC address conflicts with another.	The MAC address conflicts with another, please check configuration.

MAC/MacClearByVLAN

Message	Explanation
The VLAN doesn't exist.	The VLAN doesn't exist, please check vlan configuration

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XML structure	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>
    </Interface>
  </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: <ul style="list-style-type: none">true—Enabledfalse—Disabled(default)

Column name	Column description	Column type	Data type and restrictions
Domain	Authentication domain of the user	N/A	String. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Unsigned integer. Value range: 60 to 2147483647 seconds. <ul style="list-style-type: none"> Default: 300 seconds.
QuietInterval	Value for the quiet timer	N/A	<ul style="list-style-type: none"> Unsigned integer. Value range: 1 to 3600 seconds. Default: 60 seconds.
ServerInterval	Value for the server timeout timer	N/A	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled false—Disabled(default)
AuthDelayInterval	Value for MAC authentication delay timer	N/A	<ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> Default: 4096.
ReauthUnreachableMode	Status of users when the AAA server is not available for MAC reauthentication	N/A	Enumeration: <ul style="list-style-type: none"> 1—Offline(default) 2—Online
MultiVLAN	Allows authenticated users in multiple VLANs on this interface	N/A	Enumeration: <ul style="list-style-type: none"> 0—Single VLAN(default) 1—Multiple VLAN
CriticalVLAN	VLAN for users who fail authentication because of unreachable servers	N/A	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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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Columns.....	5

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: <ul style="list-style-type: none">true—Enabledfalse—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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled false—Disabled
AuthDelayEnable	Enable authentication delay	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Offline 2—Online
MultiVLAN	Allows authenticated users in multiple VLANs on this interface	N/A	Enumeration: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.

Contents

MAC Authentication1

MACA/IF1

MACA /Univerauth1

MAC Authentication

MACA/IF

Message	Explanation
Can't enable MAC authentication when port security is already enabled. 不能开启MAC地址认证，因为已经使能端口安全。	Can't enable MAC authentication when port security is already enabled. 不能开启MAC地址认证，因为已经使能端口安全。
Can't enable MAC authentication on the port when the port security mode is secure. 不能在端口上开启MAC地址认证，因为端口模式为secure。	Can't enable MAC authentication on the port when the port security mode is secure. 不能在端口上开启MAC地址认证，因为端口模式为secure。
The number can't be less than the current number of online users. 最大用户数目必须大于或等于当前在线用户数目。	The number can't be less than the current number of online users. 最大用户数目必须大于或等于当前在线用户数目。
Can't set a nonexistent VLAN as the critical VLAN. 无法将一个不存在的VLAN配置为MAC地址认证的Critical VLAN。	Can't set a nonexistent VLAN as the critical VLAN. 无法将一个不存在的VLAN配置为MAC地址认证的Critical VLAN。
Can't set a dynamic VLAN as the critical VLAN. 无法将一个动态VLAN配置为MAC地址认证的Critical VLAN。	Can't set a dynamic VLAN as the critical VLAN. 无法将一个动态VLAN配置为MAC地址认证的Critical VLAN。
Can't set a nonexistent VLAN as the guest VLAN. 无法将一个不存在的VLAN配置为MAC地址认证的Guest VLAN。	Can't set a nonexistent VLAN as the guest VLAN. 无法将一个不存在的VLAN配置为MAC地址认证的Guest VLAN。
Can't set a dynamic VLAN as the guest VLAN. 无法将一个动态VLAN配置为MAC地址认证的Guest VLAN。	Can't set a dynamic VLAN as the guest VLAN. 无法将一个动态VLAN配置为MAC地址认证的Guest VLAN。
Can't enable MAC authentication on a link aggregation member port. 不能在聚合组成员上开启MAC地址认证。	Can't enable MAC authentication on a link aggregation member port. 不能在聚合组成员上开启MAC地址认证。
Can't enable MAC authentication on the port when port-based access control is used. 不能在端口上开启MAC地址认证，因为端口的接入控制方式为基于端口认证。	Can't enable MAC authentication on the port when port-based access control is used. 不能在端口上开启MAC地址认证，因为端口的接入控制方式为基于端口认证。
Port security, MAC authentication, and 802.1X authentication are not supported on Layer 2 aggregate interfaces. 端口安全，MAC地址认证和802.1X认证不支持在二层以太网聚合接口上配置。	Port security, MAC authentication, and 802.1X authentication are not supported on Layer 2 aggregate interfaces. 端口安全，MAC地址认证和802.1X认证不支持在二层以太网聚合接口上配置。

MACA /Univerauth

Message	Explanation
Can't enable MAC authentication when port	Can't enable MAC authentication when port security is already

security is already enabled. 不能开启MAC地址认证, 因为已经使能端口安全。	enabled. 不能开启MAC地址认证, 因为已经使能端口安全。
Can't enable MAC authentication on the port when the port security mode is secure. 不能在端口上开启MAC地址认证, 因为端口模式为secure。	Can't enable MAC authentication on the port when the port security mode is secure. 不能在端口上开启MAC地址认证, 因为端口模式为secure。
The number can't be less than the current number of online users. 最大用户数目必须大于或等于当前在线用户数目。	The number can't be less than the current number of online users. 最大用户数目必须大于或等于当前在线用户数目。
Can't set a nonexistent VLAN as the critical VLAN. 无法将一个不存在的VLAN配置为MAC地址认证的Critical VLAN。	Can't set a nonexistent VLAN as the critical VLAN. 无法将一个不存在的VLAN配置为MAC地址认证的Critical VLAN。
Can't set a dynamic VLAN as the critical VLAN. 无法将一个动态VLAN配置为MAC地址认证的Critical VLAN。	Can't set a dynamic VLAN as the critical VLAN. 无法将一个动态VLAN配置为MAC地址认证的Critical VLAN。
Can't set a nonexistent VLAN as the guest VLAN. 无法将一个不存在的VLAN配置为MAC地址认证的Guest VLAN。	Can't set a nonexistent VLAN as the guest VLAN. 无法将一个不存在的VLAN配置为MAC地址认证的Guest VLAN。
Can't set a dynamic VLAN as the guest VLAN. 无法将一个动态VLAN配置为MAC地址认证的Guest VLAN。	Can't set a dynamic VLAN as the guest VLAN. 无法将一个动态VLAN配置为MAC地址认证的Guest VLAN。
Can't enable MAC authentication on a link aggregation member port. 不能在聚合组成员上开启MAC地址认证。	Can't enable MAC authentication on a link aggregation member port. 不能在聚合组成员上开启MAC地址认证。
Can't disable MAC authentication when port security is already enabled. 不能关闭MAC地址认证, 因为已经使能端口安全。	Can't disable MAC authentication when port security is already enabled. 不能关闭MAC地址认证, 因为已经使能端口安全。
Can't disable MAC authentication on the port when the port security mode is not noRestriction. 不能在端口上关闭MAC地址认证, 因为端口安全模式不为noRestriction。	Can't disable MAC authentication on the port when the port security mode is not noRestriction. 不能在端口上关闭MAC地址认证, 因为端口安全模式不为noRestriction。
Invalid username. 用户名不合法。	Invalid username. 用户名不合法。
Can't configure the username and password when the username format is individual MAC address. 当用户名格式为MAC地址时, 不允许配置用户名和密码。	Can't configure the username and password when the username format is individual MAC address. 当用户名格式为MAC地址时, 不允许配置用户名和密码。
Can't enable MAC authentication on the port when port-based access control is used. 不能在端口上开启MAC地址认证, 因为端口的接入控制方式为基于端口认证。	Can't enable MAC authentication on the port when port-based access control is used. 不能在端口上开启MAC地址认证, 因为端口的接入控制方式为基于端口认证。
Can't disable MAC authentication on the port when port-based access control is used. 不能在端口上关闭MAC地址认证, 因为端口的接入控制方式为基于端口认证。	Can't disable MAC authentication on the port when port-based access control is used. 不能在端口上关闭MAC地址认证, 因为端口的接入控制方式为基于端口认证。
Can't enable MAC authentication when EAD assistant is already enabled.	Can't enable MAC authentication when EAD assistant is already enabled.

不能开启MAC地址认证, 因为已使能EAD快速部署。	不能开启MAC地址认证, 因为已使能EAD快速部署。
Can't disable MAC authentication when EAD assistant function is enabled. 不能关闭MAC地址认证, 因为已使能EAD快速部署。	Can't disable MAC authentication when EAD assistant function is enabled. 不能关闭MAC地址认证, 因为已使能EAD快速部署。

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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
State	State of the MDC	N/A	Enumeration:	Start—Start the

Column name	Column description	Column type	Data type and restrictions	Remarks
			1: start 2: stop	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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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>

```

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 locationed 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.	<p>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').</p> <p>reference: GigabitEthernet4/5/0/1 to GigabitEthernet4/5/0/24 , GigabitEthernet4/5/0/48</p>

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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.
Status	Status of the	N/A	Enumeration:	<ul style="list-style-type: none">inactive—The MDC is

Column name	Column description	Column type	Data type and restrictions	Remarks
	MDC		<ul style="list-style-type: none"> 1: inactive 2: starting 3: active 4: stopping 5: updating 	<p>stopped or not started yet.</p> <ul style="list-style-type: none"> 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
Slot	Slot number of memory resource	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 65535.	
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/CPUUs

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>
      <IfName></IfName>
    </AllocationIdentity></AllocationIdentities>

```



```

    </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>

```


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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 - MDC/Resources/Disks.....1
 - MDC/Resources/Memories.....1
 - MDC/Resources/CPUs.....2
 - MDC/Locations.....2
 - MDC/AllocationIdentities.....2

MDC

MDC/Contexts

Message	Explanation
Please install the license for the MDC feature first.	The license is invalid during executing create or start MDC operations. Please check the license's validity and install.
Number of MDCs exceeded the limit.	During executing MDC creation, The MDC numbers exceeded the limit.
The MDC is not authorized to use this slot.	The MDC is not authorized to use this slot, so that it cannot set or require this slot memory resource.
Not enough resources available.	Memory space is not enough to operating start a MDC.
Restoring MDC configuration. Please try again later.	Set operations is forbidden, when MDC is not start over.
The MDC is busy. Please try again later.	It cannot start or stop the MDC, due to the MDC is starting or stopping.
The MDC name and ID must identify the same MDC.	The MDC name and ID must identify the same MDC.
Invalid MDC ID or MDC name.	Invalid MDC ID or MDC name.
The default MDC can't be deleted.	The default MDC can't be deleted.
Not enough resources available.	Not enough resources available.

MDC/Resources/Disks

Message	Explanation
Not enough disk space available.	It has not enough disk space, please check the disk space.
The MDC is not authorized to use this slot.	The MDC is not authorized to use this slot, so that it cannot set or require this slot disk resource.
Not enough resources available.	Malloc memory to operating this table is failed.
Restoring MDC configuration. Please try again later.	Set operations is forbidden, when MDC is not start over.

MDC/Resources/Memories

Message	Explanation
Not enough resources available.	Malloc memory to operating this table is failed.
Restoring MDC configuration. Please try again later.	Set operations is forbidden, when MDC is not start over.

MDC/Resources/CPU

Message	Explanation
Not enough resources available.	Malloc memory to operating this table is failed.
Restoring MDC configuration. Please try again later.	Set operations is forbidden, when MDC is not start over.

MDC/Locations

Message	Explanation
Not enough resources available.	During executing location operation, it may fail and return error message: " Not enough resources available." The reasons may be exceeding the mdc number limit, lack of memory space or disk space in this slot.
Operation failed. There are IRF physical ports.	The IRF devices will be devided, If MDC exiting the IO board which has IRF physics ports.
Restoring MDC configuration. Please try again later.	Set operations is forbidden, when MDC is not start over.
The MDC is busy. Please try again later.	It cannot location the MDC, due to the MDC is starting or stopping.
Not enough hardware resources available.	This slot is lack of hardware resources.

MDC/AllocationIdentities

Message	Explanation
Some interfaces group have not include all of its interface.	Some interfaces group have not include all of its interface.
Some type of interfaces can not be allocated to an MDC exclusively.	Some type of interfaces can not be allocated to an MDC exclusively.
Some interfaces are duplicated.	The MDC alloc interfaces failed.
Some interfaces are invalid.	Some interfaces are invalid.

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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: <ul style="list-style-type: none">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 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.	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: <ul style="list-style-type: none">• 1—Inbound.• 2—Outbound.• 3—Both.	Required

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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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true—Support • false—Not support 	N/A
Sampler	The mirroring group type which support sampler.	N/A	Each bit represents a type as follows: <ul style="list-style-type: none"> • 1—Local • 2—Source • 4—Remote destination 	N/A
MultiMonitorInOneGroup	Whether one mirroring group supports multiple monitor ports.	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 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>
    <ReportSourceAddr></ReportSourceAddr>
    <DoneSourceAddr></DoneSourceAddr>
    <Proxy></Proxy>
    <QuerierElection></QuerierElection>
  </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: <ul style="list-style-type: none"> disable(default) enable 	N/A
Version	Specify the MLD snooping version for specified VLAN.	N/A	Enumeration: <ul style="list-style-type: none"> 1(default) 2 	N/A
DropUnknown	Set MLD snooping dropping unknown for specified VLAN.	N/A	Enumeration: <ul style="list-style-type: none"> disable(default) enable 	N/A
Querier	Set MLD snooping querier for specified	N/A	Enumeration: <ul style="list-style-type: none"> disable(default) enable 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	VLAN.			
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 IPv6 address of MLD general queries for specified VLAN.	N/A	IPv6 address.	Example: 1:1::1:1.
SpecialQuerySourceAddr	Specify the source IPv6 address for MLD group-specific queries for specified VLAN.	N/A	IPv6 address.	Example: 1:1::1:1.
ReportSourceAddr	Specify the source IPv6 address of MLD reports for the specified VLAN.	N/A	IPv6 address.	Example: 1:1::1:1.
DoneSourceAddr	Specify the source IPv6 address for MLD done messages for the specified VLAN.	N/A	IPv6 address.	Example: 1:1::1:1.
Proxy	Enable MLD snooping proxy for the specified VLAN.	N/A	Enumeration: <ul style="list-style-type: none"> • disable(default) • enable 	N/A
QuerierElection	Enable MLD snooping querier election for the specified VLAN.	N/A	Enumeration: <ul style="list-style-type: none"> • disable(default) • enable 	N/A

MLDSnooping/VSI

This table contains the MLD snooping information for VSIs.

XML structure

```

<MLDSnooping>
  <VSIs>
    <VSI>
      <VsiName></VsiName>
      <Enabled></Enabled>
      <Version></Version>
      <DropUnknown></DropUnknown>
      <Querier></Querier>
    </VSI>
  </VSIs>
</MLDSnooping>

```



```

<QueryInterval></QueryInterval>
<GeneralQuerySourceAddr></GeneralQuerySourceAddr>
<SpecialQuerySourceAddr></SpecialQuerySourceAddr>
<ReportSourceAddr></ReportSourceAddr>
<DoneSourceAddr></DoneSourceAddr>
<Proxy></Proxy>
<QuerierElection></QuerierElection>
</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: <ul style="list-style-type: none"> disable(default) enable 	N/A
Version	Specify the MLD snooping version for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> 1(default) 2 	N/A
DropUnknown	Enable MLD snooping dropping unknown IPv6 multicast data for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> disable(default) enable 	N/A
Querier	Enable the MLD snooping querier for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> disable(default) enable 	N/A
QueryInterval	Set the MLD snooping general query interval for	N/A	Unsigned integer. Value range: 2 to 31744.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	the specified VSI.			
GeneralQuerySourceAddr	Specify the source IPv6 address of MLD general queries for the specified VSI.	N/A	IPv6 address.	Example: 1:1::1:1.
SpecialQuerySourceAddr	Specify the source IPv6 address for MLD multicast-address-specific queries for the specified VSI.	N/A	IPv6 address.	Example: 1:1::1:1.
ReportSourceAddr	Specify the source IPv6 address of MLD reports for the specified VSI.	N/A	IPv6 address.	Example: 1:1::1:1.
DoneSourceAddr	Specify the source IPv6 address for MLD done messages for the specified VSI.	N/A	IPv6 address.	Example: 1:1::1:1.
Proxy	Enable MLD snooping proxy for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> • disable(default) • enable 	N/A
QuerierElection	Enable MLD snooping querier election for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> • disable(default) • enable 	N/A

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 for VLANs on a port.	N/A	VLAN list.	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
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 for VLANs on a port.	N/A	VLAN list.	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: <ul style="list-style-type: none">• 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>
<ReportSourceAddr></ReportSourceAddr>
<DoneSourceAddr></DoneSourceAddr>
<Proxy></Proxy>
<QuerierElection></QuerierElection>
</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: <ul style="list-style-type: none"> enable disable 	N/A
Version	Specify the MLD snooping version for specified VLAN.	N/A	Enumeration: <ul style="list-style-type: none"> 1 2 	N/A
DropUnknown	Set MLD snooping dropping unknown for specified VLAN.	N/A	Enumeration: <ul style="list-style-type: none"> enable disable 	N/A
Querier	Set MLD snooping querier for specified VLAN.	N/A	Enumeration: <ul style="list-style-type: none"> enable disable 	N/A
QueryInterval	Specify MLD snooping general	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	query interval for specified VLAN.		Value range: 2 to 300.	
GeneralQuerySourceAddr	Specify the source IPv6 address of MLD general queries for specified VLAN.	N/A	IPv6 address.	Example: FE80:1::1:1.
SpecialQuerySourceAddr	Specify the source IPv6 address for MLD group-specific queries for specified VLAN.	N/A	IPv6 address.	Example: FE80:1::1:1.
ReportSourceAddr	Specify the source IPv6 address of MLD reports for the specified VLAN.	N/A	IPv6 address.	Example: FE80:1::1:1.
DoneSourceAddr	Specify the source IPv6 address for MLD done messages for the specified VLAN.	N/A	IPv6 address.	Example: FE80:1::1:1.
Proxy	Enable MLD snooping proxy for the specified VLAN.	N/A	Enumeration: <ul style="list-style-type: none"> • disable • enable 	N/A
QuerierElection	Enable MLD snooping querier election for the specified VLAN.	N/A	Enumeration: <ul style="list-style-type: none"> • disable • enable 	N/A

MLDSnooping/VSI

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>

```



```

    <ReportSourceAddr></ReportSourceAddr>
    <DoneSourceAddr></DoneSourceAddr>
    <Proxy></Proxy>
    <QuerierElection></QuerierElection>
  </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: <ul style="list-style-type: none"> disable enable 	N/A
Version	Specify the MLD snooping version for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> 1 2 	N/A
DropUnknown	Enable MLD snooping dropping unknown IPv6 multicast data for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> disable enable 	N/A
Querier	Enable the MLD snooping querier for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> 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 IPv6 address of MLD	N/A	IPv6 address.	Example: FE80:1::1:1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	general queries for the specified VSI.			
SpecialQuerySourceAddr	Specify the source IPv6 address for MLD multicast-address-specific queries for the specified VSI.	N/A	IPv6 address.	Example: FE80:1::1:1.
ReportSourceAddr	Specify the source IPv6 address of MLD reports for the specified VSI.	N/A	IPv6 address.	Example: FE80:1::1:1.
DoneSourceAddr	Specify the source IPv6 address for MLD done messages for the specified VSI.	N/A	IPv6 address.	Example: FE80:1::1:1.
Proxy	Enable MLD snooping proxy for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> • disable • enable 	N/A
QuerierElection	Enable MLD snooping querier election for the specified VSI.	N/A	Enumeration: <ul style="list-style-type: none"> • disable • enable 	N/A

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

Item	Description
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 for VLANs on a port.	N/A	VLAN list.	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

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.	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 for VLANs on a port.	N/A	VLAN list.	Example: 1,2,3,5-8,10-20.

MLDSnooping/IPv6Layer2MulticastGroups

This table contains information about Layer 2 IPv6 multicast groups for VLANs.

XML structure

```

<MLDSnooping>
  <IPv6Layer2MulticastGroups>
    <VLAN>
      <VLANID></VLANID>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <IfIndex></IfIndex>
      <PortAttribute></PortAttribute>
    </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	IPv6 address.	N/A
SourceIpAddr	Multicast source.	Index	IPv6 address.	N/A
IfIndex	Interface 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> .
PortAttribute	Port attribute.	N/A	Each bit represents a port attribute. Values: <ul style="list-style-type: none"> 1—Learned from MLD packets. 2—Learned from MLD packets with Exclude filter mode. 4—Configured statically. 8—Learned from IPv6 PIM packets. 16—Obtained from the kernel. 32—Learned from (*, *) entries. 64—Learned from (*, G) entries. 128—Processed successfully. 256—Failed to being processed. 512—TRILL port that floods IPv6 multicast data after the topology 	Examples: <ul style="list-style-type: none"> 129—means a port learned from MLD packets and processed successfully. 136—means a port learned from IPv6 PIM packets and processed successfully.

Column name	Column description	Column type	Data type and restrictions	Remarks
			changes in VLAN.	

MLDSnooping/VsiIPv6Layer2MulticastGroups

This table contains information about Layer 2 IPv6 multicast groups for VSIs.

XML structure

```

<MLDSnooping>
  <VsiIPv6Layer2MulticastGroups>
    <VSI>
      <VsiName></VsiName>
      <GroupAddr></GroupAddr>
      <SourceAddr></SourceAddr>
      <LinkID></LinkID>
      <PortAttribute></PortAttribute>
      <IfIndex></IfIndex>
      <SrvID></SrvID>
    </VSI>
  </VsiIPv6Layer2MulticastGroups>
</MLDSnooping>

```

Table description

Item	Description
Feature name	MLDSnooping
Table name	VsiIPv6Layer2MulticastGroups
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
GroupAddr	Multicast group.	Index	IPv6 address.	N/A
SourceAddr	Multicast source.	Index	IPv6 address.	N/A
LinkID	Link ID.	Index	Unsigned integer.	N/A
PortAttribute	Port attribute.	N/A	Each bit represents a port	Examples:

Column name	Column description	Column type	Data type and restrictions	Remarks
			attribute. Values: <ul style="list-style-type: none"> • 1—Learned from MLD packets. • 2—Learned from MLD packets with Exclude filter mode. • 8—Learned from IPv6 PIM packets. • 16—Obtained from the kernel. • 32—Learned from (*, *) entries. • 64—Learned from (*, G) entries. • 128—Processed successfully. • 256—Failed to being processed. • 512—TRILL port that floods IPv6 multicast data after the topology changes in VLAN. • 1024—Learned from EVPN BGP route. • 2048—Port in Exclude filter-mode and learned from EVPN BGP route. 	<ul style="list-style-type: none"> • 129—means a port learned from MLD packets and processed successfully. • 1152—means a port learned from EVPN BGP route and processed successfully.
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 <i>Ifmgr NETCONF XML API Configuration Reference</i> .
SrvID	Ethernet service instance ID.	N/A	Unsigned integer. Value range: 0 to 4096.	The value is 0 if the interface is not a Layer 2 Ethernet interface.

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MLDSnooping

MLDSnooping/Configuration

Message	Explanation
Invalid message type.	During executing get or set operation, daemon receives invalid message type.
MLD snooping is disabling globally.	During executing set operation to enable global MLD snooping, MLD snooping is disabling globally.

MLDSnooping/VLANs

Message	Explanation
Invalid message type.	During executing get or set operation, daemon receives invalid message type.
MLD snooping drop-unknown is enabled globally.	During executing set operation to enable drop-unknown for this VLAN, MLD snooping drop-unknown is enabled globally.
MLD snooping is disabled on the VLAN.	During executing set operation for this VLAN, MLD snooping is disabled on the VLAN.
MLD snooping is disabled globally.	During executing set operation for this VLAN, MLD snooping is disabled globally.
Invalid source address of general queries.	During executing set operation for GeneralQuerySourceAddr of this VLAN, the value of GeneralQuerySourceAddr is invalid.
Invalid source address of group-specific queries.	During executing set operation for SpecialQuerySourceAddr of this VLAN, the value of SpecialQuerySourceAddr is invalid.
Invalid source address of reports.	During executing set operation for ReportSourceAddr of this VLAN, the value of ReportSourceAddr is invalid.
Invalid source address of done messages.	During executing set operation for DoneSourceAddr of this VLAN, the value of DoneSourceAddr is invalid.

MLDSnooping/VSI

Message	Explanation
Invalid message type.	During executing get or set operation, daemon receives invalid message type.
MLD snooping drop-unknown is enabled globally.	During executing set operation to enable drop-unknown for this VSI, MLD snooping drop-unknown is enabled globally.
MLD snooping is disabled on the VSI.	During executing set operation for this VSI, MLD snooping is disabled on the VSI. 对该VSI进行设置时，VSI未使能MLD snooping。
MLD snooping is disabled globally.	During executing set operation for this VSI, MLD snooping is disabled globally.
Invalid source address of general queries.	During executing set operation for GeneralQuerySourceAddr of

	this VSI, the value of GeneralQuerySourceAddr is invalid.
Invalid source address of group-specific queries.	During executing set operation for SpecialQuerySourceAddr of this VSI, the value of SpecialQuerySourceAddr is invalid.
Invalid source address of reports.	During executing set operation for ReportSourceAddr of this VSI, the value of ReportSourceAddr is invalid.
Invalid source address of done messages.	During executing set operation for DoneSourceAddr of this VSI, the value of DoneSourceAddr is invalid.

MLDSnooping/FastLeavePorts

Message	Explanation
Invalid message type.	During executing get or set operation, daemon receives invalid message type.
MLD snooping is disabled globally.	During executing set operation, MLD snooping is disabled globally.

MLDSnooping/GroupLimitPorts

Message	Explanation
Invalid message type.	During executing get or set operation, daemon receives invalid message type.
MLD snooping is disabled globally.	During executing set operation, MLD snooping is disabled globally.
The configuration doesn't meet the requirements.	GroupLimitVLANList can't be removed alone, and should be removed together with Limit.

MLDSnooping/Ipv6Layer2MulticastGroups

Message	Explanation
Invalid message type.	During executing get or set operation, daemon receives invalid message type.

MLDSnooping/ VSIIPv6Layer2MulticastGroups

Message	Explanation
Invalid message type.	During executing get or set operation, daemon receives invalid message type.

Contents

- MODEM.....]
- MODEM/ModemEnable.....]
- XML structure.....]
- Table description.....]
- Columns.....]

MODEM

MODEM/ModemEnable

This table contains information about modem call direction.

XML structure

```
<MODEM>
  <ModemEnable>
    <Enable>
      <IfIndex></IfIndex>
      <CallType></CallType>
    </Enable>
  </ModemEnable>
</MODEM>
```

Table description

Item	Description
Feature name	MODEM
Table name	ModemEnable
Table type	Multi-instance table
Row name	Enable
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 table supports interface types: Asynchronous serial port; Synchronous serial port in asynchronous way; AM interface/TTY subscriber line view; AUX interface/AUX subscribe line view. Some versions support

Column name	Column description	Column type	Data type and restrictions	Remarks
				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> .
CallType	Modem call direction	N/A	Enumeration: <ul style="list-style-type: none"> • 0—none(default). • 1—call-in. • 2—call-out • 3—both. 	N/A

Contents

- MODEM 1
 - MODEM/ModemEnable 1
 - XML structure 1
 - Table description 1
 - Columns 1

MODEM

MODEM/ModemEnable

This table contains information about modem call direction.

XML structure

```
<MODEM>
  <ModemEnable>
    <Enable>
      <IfIndex></IfIndex>
      <CallType></CallType>
    </Enable>
  </ModemEnable>
</MODEM>
```

Table description

Item	Description
Feature name	MODEM
Table name	ModemEnable
Table type	Multi-instance table
Row name	Enable
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	This table supports interface types: Asynchronous serial port; Synchronous serial port in asynchronous way; AM interface/TTY subscriber line view; AUX interface/AUX subscribe line view. 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 <i>Ifmgr NETCONF XML API Configuration Reference</i> .
CallType	Modem call direction	N/A	Enumeration: <ul style="list-style-type: none"> • 0—none. • 1—call-in. • 2—call-out • 3—both. 	N/A

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ModuleProxy/DeleteJob	3
XML structure	3
Table description	4
Columns	4
ModuleProxy/DeleteSchedule	4
XML structure	4
Table description	4
Columns	5

ModuleProxy

ModuleProxy/Global

This table contains information of global.

XML structure

```
<ModuleProxy>
  <Global>
    <WorkMode></WorkMode>
  </Global>
</ModuleProxy>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WorkMode	Work mode of device.	N/A	Enumeration: <ul style="list-style-type: none">0—default1—brige2—route	N/A

ModuleProxy/Job

This table contains job information.

XML structure

```
<ModuleProxy>
```



```

<Job>
  <Name></Name>
  <Command>
    <Id></Id>
    <CommandString><CommandString>
  </Command>
</Job>
</ModuleProxy>

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Job name.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A
Command	String of execute based on time.	Data structure	Contains Id and CommandString	N/A
Id	Command Id.	N/A	Unsigned integer. Value range: 0 to 4294967295.	N/A
CommandString	Command String.	N/A	String, case-insensitive. Length: 1 to 512 characters.	N/A

ModuleProxy/Schedule

This table contains Schedule information.

XML structure

```

<ModuleProxy>
  <Schedule>

```



```

    <Name></Name>
    <JobName></JobName>
    <TimeString><TimeString>
  </Schedule>
</ModuleProxy>

```

Table description

Item	Description
Feature name	ModuleProxy
Table name	Schedule
Table type	Single-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Schedule name.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A
JobName	Job name.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A
TimeString	Time String.	N/A	String, case-insensitive. Length: 1 to 512 characters.	N/A

ModuleProxy/DeleteJob

This table delete job information.

XML structure

```

<ModuleProxy>
  <DeleteJob>
    <Name></Name>
  </DeleteJob>
</ModuleProxy>

```


Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Job name.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A

ModuleProxy/DeleteSchedule

This table delete Schedule information.

XML structure

```
<ModuleProxy>
  <DeleteSchedule>
    <Name></Name>
  </DeleteSchedule>
</ModuleProxy>
```

Table description

Item	Description
Feature name	ModuleProxy
Table name	DeleteSchedule
Table type	Single-instance table
Row name	AP
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Schedule name.	N/A	String, case-insensitive. Length: 1 to 47 characters.	N/A

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XML structure	2
Table description	2
Columns	3

ModuleProxy

ModuleProxy/Global

This table contains the informations of global.

XML structure

```
<ModuleProxy>
  <Global>
    <WorkMode></WorkMode>
    <Sample></Sample>
    <EnergySaving></EnergySaving>
  </Global>
</ModuleProxy>
```

Table description

Item	Description
Feature name	ModuleProxy
Table name	Global
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WorkMode	Work mode of device.	N/A	Enumeration: <ul style="list-style-type: none">0—default1—brige2—route	N/A
Sample	Sampling at regular time.	N/A	Boolean: <ul style="list-style-type: none">true—Support.false—Not support.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EnergySaving	Green energy saving.	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A

ModuleProxy/ContainerPort

This table contains container information.

XML structure

```

<ModuleProxy>
  <ContainerPort>
    <Container>
      <Name></Name>
      <PoeIndex></PoeIndex>
      <PoePortInfo></PoePortInfo>
    </Container>
  </ContainerPort>
</ModuleProxy>

```

Table description

Item	Description
Feature name	ModuleProxy
Table name	ContainerPort
Table type	Multi-instance table
Row name	Container
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Container name.	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
PoeIndex	Port of the container.	N/A	Port of the container.	N/A
PoePortInfo	PoE information.	N/A	String. Length: 1 to 255 characters.	N/A

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Table description	4
Columns	4
ModuleProxy/APStatistics	5
XML structure	5
Table description	5
Columns	5
ModuleProxy/ContainerPort	6
XML structure	6
Table description	6
Columns	7

ModuleProxy

ModuleProxy/Global

This table contains the informations of global.

XML structure

```
<ModuleProxy>
  <Global>
    <WorkMode></WorkMode>
    <Sample></Sample>
    <EnergySaving></EnergySaving>
  </Global>
</ModuleProxy>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
WorkMode	Work mode of device.	N/A	Enumeration: <ul style="list-style-type: none">0—default1—brige2—route	N/A
Sample	Sampling at regular time.	N/A	Boolean: <ul style="list-style-type: none">true—Support.false—Not support.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EnergySaving	Green energy saving.	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A

ModuleProxy/HistoryStatistics/Interfaces

This table contains interfaces information of history statistics.

XML structure

```

<ModuleProxy>
  <HistoryStatistics>
    <Interfaces>
      <Interface>
        <IfIndex></IfIndex>
        <Name></Name>
        <InPkts></InPkts>
        <OutPkts></OutPkts>
        <InOctets></InOctets>
        <OutOctets></OutOctets>
        <RecordTime></RecordTime>
      </Interface>
    </Interfaces>
  </HistoryStatistics>
</ModuleProxy>

```

Table description

Item	Description
Feature name	ModuleProxy
Table name	HistoryStatistics
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	The Index of interface.	Index	Unsigned Integer. Value range: 0 to 65535.	N/A
Name	The name of interface.	N/A	String, lowercase. Length: 2 to 47 characters.	If this column contains uppercase character, it will be converted to lowercase automatically.
InPkts	Enter the number of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to $2^{64} - 1$.	N/A
OutPkts	The number of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to $2^{64} - 1$.	N/A
InOctets	Enter the bytes of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to $2^{64} - 1$.	N/A
OutOctets	The bytes of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to $2^{64} - 1$.	N/A
RecordTime	The date of the record flow.	N/A	Format: YYYY-MM-DD. Value range: 1970-01-01 to 2100-12-31.	N/A

ModuleProxy/HistoryStatistics/AP

This table contains AP information of history statistics.

XML structure

```
<ModuleProxy>
  <HistoryStatistics>
    <APs>
      <AP>
        <Name></Name>
        <InPkts></InPkts>
        <OutPkts></OutPkts>
        <InOctets></InOctets>
        <OutOctets></OutOctets>
        <RecordTime></RecordTime>
```



```

        </AP>
    </APs>
</HistoryStatistics>
</ModuleProxy>

```

Table description

Item	Description
Feature name	ModuleProxy
Table name	HistoryStatistics
Table type	Multi-instance table
Row name	N/A
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.	If this column contains uppercase character, it will be converted to lowercase automatically.
InPkts	Enter the number of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to $2^{64} - 1$.	N/A
OutPkts	The number of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to $2^{64} - 1$.	N/A
InOctets	The number of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to $2^{64} - 1$.	N/A
OutOctets	The bytes of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to $2^{64} - 1$.	N/A
RecordTime	The date of the record flow.	N/A	Format: YYYY-MM-DD. Value range: 1970-01-01 to 2100-12-31.	N/A

ModuleProxy/APStatistics

This table contains statistics information of AP.

XML structure

```
<ModuleProxy>
  <APStatistics>
    <AP>
      <Name></Name>
      <InPkts></InPkts>
      <OutPkts></OutPkts>
      <InOctets></InOctets>
      <OutOctets></OutOctets>
    </AP>
  </APStatistics>
</ModuleProxy>
```

Table description

Item	Description
Feature name	ModuleProxy
Table name	APStatistics
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.	If this column contains uppercase character, it will be converted to lowercase automatically.
InPkts	Enter the number of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to $2^{64} - 1$.	N/A
OutPkts	The number of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to $2^{64} - 1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
InOctets	The number of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to $2^{64} - 1$.	N/A
OutOctets	The bytes of packets in the direction.	N/A	Unsigned Integer. Value range: 0 to $2^{64} - 1$.	N/A

ModuleProxy/ContainerPort

This table contains container information.

XML structure

```

<ModuleProxy>
  <ContainerPort>
    <Container>
      <Name></Name>
      <PoeIndex></PoeIndex>
      <PoePortInfo></PoePortInfo>
    </Container>
  </ContainerPort>
</ModuleProxy>

```

Table description

Item	Description
Feature name	ModuleProxy
Table name	ContainerPort
Table type	Multi-instance table
Row name	Container
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Container name.	Index	String, lowercase. Length: 1 to 64 characters.	If this column contains uppercase characters, it will be converted to lowercase automatically.
PoeIndex	Port of the container.	N/A	Unsigned short.	N/A
PoePortInfo	PoE information.	N/A	String. Length: 1 to 255 characters.	N/A

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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	8
Table description.....	8
Columns.....	8
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XML structure	10
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XML structure	11
Table description.....	11
Columns.....	12
MPLS/MPLSVRF	12
XML structure	12
Table description.....	13
Columns.....	13

MPLS

MPLS/Base

This table contains global MPLS information.

XML structure

```
<MPLS>
  <Base>
    <LSRID></LSRID>
    <CBTSStatInterval></CBTSStatInterval>
  </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
CBTSStatInterval	CBTS statistics collection interval in seconds	N/A	Unsigned short. Value range: 5~65535. The default value is 5.	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: <ul style="list-style-type: none"> true—Enabled. false—Disabled(default). 	N/A

MPLS/TunnelPolicies

This table contains Tunnel policy information.

XML structure

```

<MPLS>
  <TunnelPolicies>
    <TunnelPolicy>

```



```

<PolicyName></PolicyName>
<Default></Default>
<Sequence>
  <Strict></Strict>
  <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 the tunnel policy	Index	String. Length: 1 to 19 characters.	N/A
Default	The default tunnel policy	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled(default). 	N/A
Sequence	Tunnel selection setting	N/A	Members include: <ul style="list-style-type: none"> PrefLspType. LoadBalancingNum. 	The members of PrefLspType and LoadBalancingNum must be specified.
Strict	Using only one type of tunnels for load balancing	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled(default). 	N/A
PrefLspType	Preferred tunnel type	N/A	Enumeration: <ul style="list-style-type: none"> 0—LSP. 1—GRE. 2—CR-LSP. 3—SR-LSP. 	Up to 4 repeats are allowed for PrefLspType. Support for GRE depends on the device model.
LoadBalancingNum	Number of tunnels for load balancing	N/A	Unsigned integer. The value range varies by	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			device model.	

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: <ul style="list-style-type: none"> 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>
  <TunnelMbfs>
    <TunnelMbfd>
      <TunnelID></TunnelID>
      <Enable></Enable>
      <Echo></Echo>
      <Template></Template>
      <BackupTemplate></BackupTemplate>
    </TunnelMbfd>
  </TunnelMbfs>
</MPLS>
```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelMbfs
Table type	Multi-instance table
Row name	TunnelMbfd
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: <ul style="list-style-type: none">true—Enabled.false—Disabled(default).	N/A
Echo	Echo style of MBFD	N/A	Boolean: <ul style="list-style-type: none">true—Enabled.false—Disabled(default).	N/A
Template	The MBFD parameter of main LSP	N/A	String. Length: 1 to 63 characters.	When has no BackupTemplate, the template also apply to backup LSP.
BackupTemplate	The MBFD parameter of backup LSP	N/A	String. Length: 1 to 63 characters.	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.
OutIfIndex	LSP outgoing interface index	N/A	Unsigned integer.	One and only one of this column or NextHop must be specified. 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 “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

Column name	Column description	Column type	Data type and restrictions	Remarks
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.
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.
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>
```

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	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	segment routing adjacency.		Length: 1 to 15 characters.	
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. One and only one of this column and NextHop must be specified.
OutIfIndex	Prefix outgoing 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.
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: <ul style="list-style-type: none"> 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>
    <CBTSSStatInterval></CBTSSStatInterval>
  </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: <ul style="list-style-type: none">true—Supported.false—Not supported.	N/A
SupportStaticSR	Whether static segment routing with MPLS feature is supported	N/A	Boolean: <ul style="list-style-type: none">true—Supported.false—Not supported.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SRMaxLabel Depth	The max. label stack depths for segment routing with MPLS	N/A	<ul style="list-style-type: none"> Unsigned integer 	N/A
CBTSStat Interval	The CBTS statistics collection interval in seconds	N/A	Unsigned short. Value range: 5~65535	Unit of time is second.

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

Column name	Column description	Column type	Data type and restrictions	Remarks
				IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Enable	Enable MPLS	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled(default). 	N/A

MPLS/TunnelPolicies

This table contains Tunnel policy information.

XML structure

```

<MPLS>
  <TunnelPolicies>
    <TunnelPolicy>
      <PolicyName></PolicyName>
      <Default></Default>
      <Sequence>
        <Strict></Strict>
        <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 the	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	tunnel policy		Length: 1 to 19 characters..	
Default	The default tunnel policy	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
Sequence	Tunnel selection setting	N/A	Member include: <ul style="list-style-type: none"> PrefLspType. LoadBalancingNum. 	N/A
Strict	Using only one type of tunnels for load balancing	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
PrefLspType	Preferred tunnel type	N/A	Enumeration: <ul style="list-style-type: none"> 0—LSP. 1—GRE. 2—CR-LSP. 3—SR-LSP. 	Up to 4 repeats are allowed for PrefLspType. Support for GRE depends on the device model.
LoadBalancingNum	Number of tunnels for Load balancing	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: <ul style="list-style-type: none"> 0—TUNNEL. 1—TUNNEL-BUNDLE. 	N/A
TunnelID	Tunnel ID.	Index	Unsigned integer.	N/A
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: <ul style="list-style-type: none">0—STATIC.	N/A
MinLabel	The minimum label of the range.	N/A	Unsigned integer. <ul style="list-style-type: none">The value range varies by device model.	N/A
MaxLabel	The maximum label of the range.	N/A	Unsigned integer. <ul style="list-style-type: none">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: <ul style="list-style-type: none">0—STATIC.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 1—EGRESS. 2—DYNAMIC 3—L3VPN 4—VPWS 5—VPLS 6—SRGB 	
MinLabel	The minimum label of the range.	N/A	Unsigned integer. <ul style="list-style-type: none"> The value range varies by device model. 	N/A
MaxLabel	The maximum label of the range.	N/A	Unsigned integer. <ul style="list-style-type: none"> The value range varies by device model. 	N/A

MPLS/TunnelMbfd

This table contains MBFD Tunnel interface information.

XML structure

```

<MPLS>
  <TunnelMbdfs>
    <TunnelMbfd>
      <TunnelID></TunnelID>
      <Enable></Enable>
      <Echo></Echo>
      <Template></Template>
      <BackupTemplate></BackupTemplate>
    </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: <ul style="list-style-type: none">true—Enabled.false—Disabled.	N/A
Echo	Echo style of MBFD	N/A	Boolean: <ul style="list-style-type: none">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	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			device model.	

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.
DestWildcard	Mask of the IPv4	N/A	String, dotted decimal notation.	The member of

Column name	Column description	Column type	Data type and restrictions	Remarks
Mask	LSP destination address			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>

```


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. One and only one of this column or NextHop must be specified.
OutIfIndex	Prefix outgoing 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.
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>
      <HCOctets></HCOctets>
      <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: <ul style="list-style-type: none"> • 0—Unknown. • 1—Static LSP. • 2—Static CRLSP. • 3—LDP. • 4—RSVP. • 5—MP-BGP. • 6—ISIS. • 7—OSPF. 	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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • Inbound ID: 0. • Outbound ID: 1 to 255.
InfoType	LSP information type	N/A	Enumeration: <ul style="list-style-type: none"> • 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	N/A	Unsigned integer.	LSP outbound information contains this

Column name	Column description label	Column type	Data type and restrictions	Remarks
				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/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>

```



```
</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: <ul style="list-style-type: none"> 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 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: <ul style="list-style-type: none"> 0—Unidirectional tunnel. 1—Forward LSP for a bidirectional 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			tunnel. <ul style="list-style-type: none"> 2—Backward LSP for a bidirectional tunnel. 	
LSRType	LSR type	Index	Enumeration: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> Inbound ID: 0. Outbound ID: 1 to 255.
InfoType	LSP information type	N/A	Enumeration: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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 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/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.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 1—Static LSP. 2—Static CRLSP. 3—LDP. 4—RSVP. 5—MP-BGP. 	
LspIndex	Static LSP index	Index	Unsigned integer. Length: 32 bits.	Typically, this column represents static LSP incoming label.
LSRType	LSR type	Index	Enumeration: <ul style="list-style-type: none"> 0—Ingress. 1—Transit. 2—Egress. 	N/A
ID	LSP ID	Index	Unsigned integer. Value range: 0 to 255.	<p>An LSP can have one row for inbound information, and multiple rows for outbound information. Each row has an ID.</p> <ul style="list-style-type: none"> Inbound ID: 0. Outbound ID: 1 to 255.
InfoType	LSP information type	N/A	Enumeration: <ul style="list-style-type: none"> 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.	<p>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>.</p> <p>LSP outbound information contains outgoing interface and next hop, or it contains NHLFE ID.</p>
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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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 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: <ul style="list-style-type: none">true—Enabled.false—Disabled.	N/A

MPLS/TETunnelStatistics

This table contains TE tunnel statistics information.

XML structure

```
<MPLS>
  <TETunnelStatistics>
    <TETunnelStatistic>
```



```

<TunnelID></TunnelID>
<ServiceClass></ServiceClass>
<Octets></Octets>
<HCOctets></HCOctets>
<Packets></Packets>
<Errors></Errors>
<Discards></Discards>
<Systime></Systime>
</TETunnelStatistic>
</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

Column name	Column description	Column type	Data type and restrictions	Remarks
Systime	Time that elapsed after the device started up, in milliseconds	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MPLS/TunnelForwarding

This table contains tunnel forwarding information.

XML structure

```

<MPLS>
  <TunnelForwardings>
    <TunnelForwarding>
      <TunnelNum></TunnelNum>
      <OutInfo>
        <ID></ID>
        <OutIfName></OutIfName>
        <NextHop></NextHop>
        <OutLabel></OutLabel>
        <Active></Active>
      </OutInfo>
      <BackupOutIfName></BackupOutIfName>
      <BackupNextHop></BackupNextHop>
      <BackupOutLabel></BackupOutLabel>
      <BackupActive></BackupActive>
    </TunnelForwarding>
  </TunnelForwardings>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	TunnelForwardings
Table type	Multi-instance table
Row name	TunnelForwarding
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelNum	Tunnel number	Index	Unsigned integer.	N/A
OutInfo	Outbound information	Data structure	Members include: <ul style="list-style-type: none"> ID. OutIfName. NextHop. OutLabel. Active. 	N/A
ID	Out information ID	N/A	Unsigned integer. Value range: 0 to 2.	N/A
OutIfName	Outgoing interface name	N/A	String.	Outbound information contains this column.
NextHop	Next hop address	N/A	String, dotted decimal notation.	Outbound information contains this column.
OutLabel	Outgoing label	N/A	Unsigned integer.	Outbound information contains this column.
Active	State of forwarding information	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
BackupOutIfName	Backup outgoing interface name	N/A	String.	Backup outbound information contains this column.
BackupNextHop	Backup next hop address	N/A	String, dotted decimal notation.	Backup outbound information contains this column.
BackupOutLabel	Backup outgoing label	N/A	Unsigned integer.	Backup outbound information contains this column.
BackupActive	State of the backup forwarding information	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A

MPLS/ILMForwarding

This table contains ILM forwarding information.

XML structure

```

<MPLS>
  <ILMForwardings>
    <ILMForwarding>
      <Label></Label>
      <OutInfo>
        <ID></ID>

```



```

    <OutIfName></OutIfName>
    <NextHop></NextHop>
    <OutLabel></OutLabel>
    <Active></Active>
  </OutInfo>
  <BackupOutIfName></BackupOutIfName>
  <BackupNextHop></BackupNextHop>
  <BackupOutLabel></BackupOutLabel>
  <BackupActive></BackupActive>
</ILMForwarding>
</ILMForwardings>
</MPLS>

```

Table description

Item	Description
Feature name	MPLS
Table name	ILMForwardings
Table type	Multi-instance table
Row name	ILMForwarding
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Label	Label index	Index	Unsigned integer.	N/A
OutInfo	Outbound information	Data structure	Members include: <ul style="list-style-type: none"> ID. OutIfName. NextHop. OutLabel. Active. 	N/A
ID	Out Information ID	N/A	Unsigned integer. Value range: 0 to 2.	N/A
OutIfName	Outgoing interface name	N/A	String.	Outbound information contains this column.
NextHop	Next hop address	N/A	String, dotted decimal notation.	Outbound information contains this column.
OutLabel	Outgoing label	N/A	Unsigned integer.	Outbound information contains this column.
Active	State of forwarding information	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
BackupOutIfNa	Backup outgoing	N/A	String.	Backup outbound

Column name	Column description	Column type	Data type and restrictions	Remarks
me	interface name			information contains this column.
BackupNextHop	Backup next hop address	N/A	String, dotted decimal notation.	Backup outbound information contains this column.
BackupOutLabel	Backup outgoing label	N/A	Unsigned integer.	Backup outbound information contains this column.
BackupActive	State of the backup forwarding information	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled. • false—Disabled. 	N/A

Comware 7 LSM NETCONF XML API Error Message Reference

MPLS/IPV4_LSP

Message	Explanation
The feature LSM has not been enabled. LSM进程未启动。	Please start LSM service before getting MPLS/IPV4_LSP table information. 请在获取IPV4_LSP表之前启动LSM进程。
Not support Segment Routing Prefix. 不支持Segment Routing Prefix。	The device must support Segment Routing Prefix first. 设备须首先支持Segment Routing Prefix。
The incoming label is already in use. 入标签已被占用。	The incoming label configured must not be in used. 配置的入标签不能已被占用。

MPLS/TEV4_LSP

Message	Explanation
The feature LSM has not been enabled. LSM进程未启动。	Please start LSM service before getting MPLS/TEV4_LSP table information. 请在获取TEV4_LSP表之前启动LSM进程。
The incoming label is already in use. 入标签已被占用。	The incoming label configured must not be in used. 配置的入标签不能已被占用。
Not support Segment Routing Prefix. 不支持Segment Routing Prefix。	The device must support Segment Routing Prefix first. 设备须首先支持Segment Routing Prefix。

MPLS/STATIC_LSP

Message	Explanation
The feature LSM has not been enabled. LSM进程未启动。	Please start LSM service before getting MPLS/Static_LSP table information. 请在获取Static_LSP表之前启动LSM进程。
The incoming label is already in use. 入标签已被占用。	The incoming label configured must not be in used. 配置的入标签不能已被占用。
Not support Segment Routing Prefix. 不支持Segment Routing Prefix。	The device must support Segment Routing Prefix first. 设备须首先支持Segment Routing Prefix。

MPLS/Base

Message	Explanation
The feature LSM has not been enabled. LSM进程未启动。	Please start LSM service before getting MPLS/Base table information. 请在获取Base表之前启动LSM进程。

MPLS/Interfaces

Message	Explanation
The feature LSM has not been enabled. LSM进程未启动。	Please start LSM service before getting MPLS/Interfaces table information. 请在获取Interfaces表之前启动LSM进程。

MPLS /TunnelPolicies

Message	Explanation
The feature LSM has not been enabled. LSM进程未启动。	Please start LSM service before getting MPLS/TunnelPolicies table information. 请在获取TunnelPolicies表之前启动LSM进程。
Both the tunnel selection order and the number of tunnels for load balancing are required. 请配置配置隧道的选择顺序和负载分担的隧道数目。	Please configure the tunnel selection order and the number of tunnels for load balancing at the same time. 请同时配置隧道的选择顺序和负载分担的隧道数目。
Can't specify duplicate tunnel types for tunnel selection. 隧道类型的优先级顺序不允许出现重复类型。	Tunnel types for tunnel selection must be unique. 隧道类型的优先级顺序必须唯一。
无效的隧道/捆绑隧道 ID The TunnelID is invalid.	The tunnel that preferred path configured must be valid. 优选隧道引用的隧道必须是有效的。
The PolicyName is invalid. 无效的隧道/捆绑隧道 名称 有效长度0-20。	The PolicyName length must be between 0 to 20. 隧道名称有效长度范围必须在0-20。
The TunnelType is invalid.无效的隧道/捆绑隧道类型 有效类型 0/1	The TunnelType must be tunnel or tunnel-bundle. 隧道类型必须是tunnel 或者tunnel-bundle。

MPLS/StaticEgressLsps

Message	Explanation
The feature SLSP has not been enabled. SLSP进程未启动。	Please start SLSP service before getting MPLS/StaticEgressLsp table information. 请在获取StaticEgressLsp表之前启动SLSP进程。

The static LSP already exists. 该静态LSP已存在。	The LSP name must be unique. LSP名称必须唯一。
The incoming label is already in use. 入标签已被占用。	The incoming label configured must not be in use. 配置的入标签不能被占用。

MPLS/StaticIngressLsp

Message	Explanation
The feature SLSP has not been enabled. SLSP进程未启动。	Please start SLSP service before getting MPLS/StaticIngressLsp table information. 请在获取StaticIngressLsp表之前启动SLSP进程。
The static LSP already exists. 该静态LSP已存在。	The LSP name must be unique. LSP名称必须唯一。
The incoming label is already in use. 入标签已被占用。	The incoming label configured must not be in use. 配置的入标签不能被占用。

MPLS/StaticTransitLSPs

Message	Explanation
The feature SLSP has not been enabled. SLSP进程未启动。	Please start SLSP service before getting MPLS/StaticTransitLsp table information. 请在获取StaticTransitLsp表之前启动SLSP进程。
The static LSP already exists. 该静态LSP已存在。	The LSP name must be unique. LSP名称必须唯一。
The incoming label is already in use. 入标签已被占用。	The incoming label configured must not be in use. 配置的入标签不能被占用。

MPLS/StaticSRLSPs

Message	Explanation
Not support Static Segment Routing. 不支持Static Segment Routing。	The device must support Static Segment Routing first. 设备须首先支持Segment Routing Prefix。
The feature SLSP has not been enabled. SLSP进程未启动。	Please start SLSP service before getting MPLS/StaticSRLsp table information. 请在获取StaticSRLsp表之前启动SLSP进程。
The static LSP already exists. 该静态LSP已存在。	The LSP name must be unique. LSP名称必须唯一。
The static SRLSP already exists. 该静态SRLSP已存在。	The SRLSP name must be unique. SRLSP名称必须唯一。
The depth of the out label stack is out of the range.	The depth of the out label in the device range.

标签栈深度超出规定范围。	标签栈的深度必须在设备定制范围内。
The empty label must be configured on the last layer. 空标签只能配置在最外层。	The implicit null label 3 and explicit null label 0 must be configured on the last layer. 隐式空标签3和显示空标签0必须配置在最外层。

MPLS/StaticSRAdjacencies

Message	Explanation
The feature SLSP has not been enabled. SLSP进程未启动。	Please start SLSP service before getting MPLS/StaticSRAdjacencies table information. 请在获取StaticSRAdjacencies表之前启动SLSP进程。
The static LSP already exists. 该静态LSP已存在。	The LSP name must be unique. LSP名称必须唯一。
The static SRLSP already exists. 该静态SRLSP已存在。	The SRLSP name must be unique. SRLSP名称必须唯一。
The depth of the out label stack is out of the range. 标签栈深度超出规定范围。	The depth of the out label stack must be in the device range. 标签栈的深度必须在设备定制范围内。

MPLS/StaticSRPrefixs

Message	Explanation
The feature SLSP has not been enabled. SLSP进程未启动。	Please start SLSP service before getting MPLS/StaticSRPrefixs table information. 请在获取StaticSRPrefixs表之前启动SLSP进程。
The static LSP already exists. 该静态LSP已存在。	The LSP name must be unique. LSP名称必须唯一。
The static SRLSP already exists. 该静态SRLSP已存在。	The SRLSP name must be unique. SRLSP名称必须唯一。
The depth of the out label stack is out of the range. 标签栈深度超出规定范围。	The depth of the out label stack must be in the device range. 标签栈的深度必须在设备定制范围内。
Prefix paths that share the same name must be configured with the same destination IP address. 同名的配置必须配置相同的地址。	The destination of the same prefix path must be unique. 相同prefix路径的目的地址必须唯一。
Can't create a prefix path to a transit node and egress node. 同一条prefix不能既是中间节点又是尾节点。	Can't create a prefix path to a transit node and egress node during configuring a prefix path , 不能配置同一条prefix既是中间节点又是尾节点。

Prefix paths configured with the same destination IP address must use the same name. 相同的地址必须配置相同的名字。	Prefix paths configured with the same destination IP address must use the same name. 相同的地址必须配置相同的名字。
Prefix paths that share the same name must be configured with the same incoming label. 同名的配置必须配置相同的入标签。	During configuring a prefix path, the same name must be consistent with the same incoming label. 配置prefix路径时，同名的配置必须配置相同的入标签。
The destination IP address doesn't match the name of the prefix path. 去配置prefix，如果携带目的地址必须同配置保持一致。	During configuring or deleting a prefix path, the destination must be consistent with the prefix path. 去配置prefix，如果携带目的地址必须同配置保持一致。
The incoming label doesn't match the name of the prefix path. 去配置prefix，如果携带入标签必须同配置保持一致。	During configuring or deleting a prefix path, the incoming label must be consistent with the prefix path. 去配置prefix，如果携带入标签必须同配置保持一致。
Not support Static Segment Routing. 不支持Static Segment Routing。	The device must support Static Segment Routing first. 设备须首先支持Static Segment Routing。
The empty label must be configured on the last layer. 空标签只能配置在最外层。	The implicit null label 3 and explicit null label 0 must be configured on the last layer. 隐式空标签3和显示空标签0必须配置在最外层。
Not support Segment Routing Prefix. 不支持Segment Routing Prefix。	The device must support Segment Routing Prefix first. 设备须首先支持Segment Routing Prefix。

MPLS/TunnelMbfd

Message	Explanation
Number of MPLS BFDs has reached the upper limit. BFD已经满规格了。	Number of MPLS BFDs must be smaller than or equal to the upper limit. MPLS BFD的数量必须小于或等于满规格的数量。
Not support MPLS BFD. 不支持MPLS BFD。	The product must support MPLS BFD first when getting MPLS/TunnelMbfd table information. 获取MPLS BFD表的信息时，产品必须首先支持MPLS BFD。
The feature MBFD has not been enabled. MBFD还没使能。	Please start MBFD service before getting MPLS/TunnelMbfd table information. 请获取MPLS BFD表之前先启动MBFD进程。

MPLS/PreferredTunnelPolicies

Message	Explanation
The TunnelID is invalid. 无效的隧道/捆绑隧道 ID	The tunnel that preferred path configured must be valid. 优选隧道引用的隧道必须是有效的。

<p>The PolicyName is invalid.</p> <p>无效的隧道/捆绑隧道 名称 有效长度0-20。</p>	<p>The PolicyName length must be between 0 to 20.</p> <p>隧道名称有效长度范围必须在0-20。</p>
<p>The TunnelType is invalid.无效的隧道/捆绑隧道 类型 有效类型 0/1</p>	<p>The TunnelType must be tunnel or tunnel-bundle.</p> <p>隧道类型必须是tunnel 或者tunnel-bundle。</p>

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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>
      <PolicyType></PolicyType>
    </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: <ul style="list-style-type: none">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.
PolicyType	Policy type	N/A	Enumeration: <ul style="list-style-type: none">0—Common policy.1—Remarking policy.2—Accounting policy.3—Mirroring policy.	If you do not specify this column, common policies are cleared.

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: <ul style="list-style-type: none">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	17
Table description	17
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XML structure	18
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XML structure	20
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MQC/CAR	20
XML structure	20
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XML structure	32
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XML structure	33
Table description	33
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XML structure	34
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XML structure	35
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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: <ul style="list-style-type: none">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. If this column is not

Column name	Column description	Column type	Data type and restrictions	Remarks
				configured, the default value is 1.
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>
      <Type></Type>
    </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
Type	Policy type	N/A	Enumeration: <ul style="list-style-type: none">• 0—Common policy (default).• 1—Remarking policy.• 2—Accounting policy.• 3—Mirroring policy.	This column cannot be modified.

MQC/CBMaps

This table contains information about classifier-behavior association.

XML structure

```
<MQC>
  <CBMaps>
    <CBMap>
      <PolicyName></PolicyName>
      <ClassifierName></ClassifierName>
```



```

    <BehaviorName></BehaviorName>
    <Mode></Mode>
    <InsertBeforeClassifierName></InsertBeforeClassifierName>
  </CBMap>
</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: <ul style="list-style-type: none"> 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>
<RTPPort>
  <PortStart></PortStart>
  <PortEnd></PortEnd>
</RTPPort>
<Application></Application>
<ApplicationGroup></ApplicationGroup>
<Vxlan></Vxlan>
<VxlanAny></VxlanAny>
<TunnelID></TunnelID>
<VLANTag></VLANTag>
<TunnelDscpList>
  <TunnelDscp></TunnelDscp>
</TunnelDscpList>
<IFA></IFA>
<OutBoundInterface></OutBoundInterface>
</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 operation type of the message is create , RuleID can be configured as 4294967295 or the NextRuleID of the Classifiers table.
Not	Whether the rule is used as an unsuccessful match criterion	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No. 	Required.
PktType	Packet type to be matched.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Any. 2—IP. 3—IPv6. 4—Arp. 5—Bt. 6—Bridge. 7—Route. 	<p>When the PktType column is 1, the rule matches all packets.</p> <p>When the PktType column is 2, the rule matches IPv4 packets.</p> <p>When the PktType column is 3, the rule matches IPv6 packets.</p> <p>When the PktType column is 4, the rule matches ARP packets.</p> <p>When the PktType column is 5, the rule matches BitTorrent packets.</p> <p>When the PktType column is 6, the rule matches Layer 2 forwarded packets.</p> <p>When the PktType column is 7, the rule matches Layer 3 forwarded packets.</p>
Acl	Match ACL	Data structure	Members include: <ul style="list-style-type: none"> IPv4Acl. IPv6Acl. Inner. 	<p>IPv4Acl and IPv6Acl cannot be specified together.</p> <p>For information about how to configure, see "Appendix."</p>
IPv4Acl	Match IPv4 ACL.	N/A	<ul style="list-style-type: none"> ACL name: 	An ACL name must start

Column name	Column description	Column type	Data type and restrictions	Remarks
			Case-insensitive string of 1 to 63 characters. <ul style="list-style-type: none"> ACL number: An unsigned integer in the range of 2000 to 5999. 	with an English letter and cannot be all .
IPv6Acl	Match IPv6 ACL.	N/A	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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.
CustomerVLA	Match the	N/A	Number string.	Example: 1,2,3,5-8,10-20.

Column name	Column description	Column type	Data type and restrictions	Remarks
NID	customer VLAN ID.		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.	you can specify up to 10 VLAN IDs or VLAN ID ranges.
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 63 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: <ul style="list-style-type: none"> • Min. • Max. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> LabelStart. LabelEnd. 	The two members must both be specified.
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Conform. false—Not conform. 	The Vxlan column must be specified when the VxlanAny column is false .

Column name	Column description	Column type	Data type and restrictions	Remarks
TunnelID	Match tunnel ID.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
VLANTag	Match VLAN tagging mode	N/A	Enumeration: <ul style="list-style-type: none"> 1—None. 2—Single-tagged. 4—Double-tagged. 	N/A
TunnelDscpList	Match tunnel DSCP values.	Data structure	Members include: <ul style="list-style-type: none"> TunnelDscp. 	N/A
TunnelDscp	Match tunnel DSCP values.	N/A	Unsigned integer. Value range: 0 to 63.	You can specify up to 8 Dscp for a rule
IFA	Inband Flow Analyzer	N/A	Enumeration: <ul style="list-style-type: none"> 1—tcp. 2—udp. 	N/A
OutBoundInterface	Match output interface	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.

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	<p>Enumeration:</p> <ul style="list-style-type: none"> 0—CDot1pTrust. 1—Dscp. 2—IPPre. 3—MplsExp. 4—Dot1p. 5—LocalID. 6—LocalPre. 7—DropPre. 8—CVlanID. 9—SVlanID. 10—ImpositionMplsExp. 11—ForwardingClass. 12—AtmClp. 16—ServiceClass. 17—TunnelDscp. 	<p>When the Type column is 0, configure an inner-to-outer tag priority copying action.</p> <p>When the Type column is 1, configure a DSCP marking action.</p> <p>When the Type column is 2, configure an IP precedence marking action.</p> <p>When the Type column is 3, configure an EXP value marking action.</p> <p>When the Type column is 4, configure an 802.1p priority marking action.</p> <p>When the Type column is 5, configure the action of setting the specified local QoS ID for packets.</p> <p>When the Type column is 6, configure a local precedence marking action.</p> <p>When the Type column is 7, configure a drop priority marking action.</p> <p>When the Type column is 8, configure a CVLAN marking action.</p> <p>When the Type column is 9, configure a SVLAN marking action.</p> <p>When the Type column is 10, configure an EXP value marking action for added labels.</p> <p>When the Type column is 11, configure a</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>forwarding-class marking action.</p> <p>When the Type column is 12, configure the action of setting the CLP bit for ATM cells.</p> <p>When the Type column is 16, configure the action of setting the service-class of MPLS traffic engineering.</p> <p>When the Type column is 17, configure a tunnel-DSCP marking action.</p>
Color	The color of affected packets	Index	<p>Enumeration:</p> <ul style="list-style-type: none"> • 0—No color. • 1—Green. • 2—Yellow. • 3—Red. 	<p>Specifies different color packets for the priority marking action. Support for the green, red and yellow keyword depends on the device model.</p> <p>When- the Color column is 0, specifies all packets.</p> <p>When the Color column is 1, specifies green packets.</p> <p>When the Color column is 2, specifies yellow packets.</p> <p>When the Color column is 3, specifies red packets.</p>
Value	The value of marking action	N/A	Unsigned integer.	<p>Required when the Type column is 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 16 or 17.</p> <p>When the Type column is 0, the value is invalid.</p> <p>When the Type column is 8 or 9, the value range is 1 to 4094.</p> <p>When the Type column is 7, the value range is 0 to 2.</p> <p>When the Type column is 5, the value range is 1 to 4095.</p> <p>When the Type column is 2, 3, 4, 6 or 10, the value range is 0 to 7.</p> <p>When the Type column is 11, the value range is 0 to 3 or 0 to 7.</p> <p>When the Type column is 1, the value range is 0 to</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				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>
      <FailoverGroup>
        <GroupName></GroupName>
        <Channel></Channel>
      </FailoverGroup>
    </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: <ul style="list-style-type: none"> 1—CPU. 2—Interface. 3—VSI. 4—FailoverGroup. 6—Nexthop 	<p>When the Type column is 1, redirect traffic to CPU.</p> <p>When the Type column is 2, redirect traffic to an interface.</p> <p>When the Type column is 3, redirect traffic to a virtual station interface.</p> <p>When the Type column is 4, redirect traffic to a failover group.</p> <p>When the Type column is 6, redirect traffic to nexthop.</p>
IfIndex	Interface index	Index	Unsigned integer.	<p>The value of this column is valid if Type is 2.</p> <p>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.</p>
TrackOap	Enable the traffic redirecting action to collaborate with OAP	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	The value of this column is valid if Type is 2 .
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 .

Column name	Column description	Column type	Data type and restrictions	Remarks
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 .
FailoverGroup	Failover group	Data structure	Members include: <ul style="list-style-type: none"> GroupName. Channel. 	N/A
GroupName	Failover group name	N/A	String. Length: 1 to 63 characters.	The value of this column is valid if Type is 4 .
Channel	Channel	N/A	Unsigned integer. Value range: 0 to 1.	The value of this column is valid if Type is 4 . Some versions don't support this column. For relevant information, see the XSD document of your product.

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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
<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: <ul style="list-style-type: none"> 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	N/A	Unsigned integer.	

Column name	Column description	Column type	Data type and restrictions	Remarks
	size			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 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: <ul style="list-style-type: none"> GreenActionType. GreenActionValue. 	GreenActionValue is required when GreenActionType is not 1, 10 or 19.
GreenActionType	Green Action Type	N/A	Enumeration: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>0~1.</p> <p>When GreenActionType is 2, GreenActionValue is 0~63.</p> <p>When GreenActionType is 3, 4, 5, 8, GreenActionValue is 0~7.</p>
YellowAction	Specify behavior for yellow packets	Data structure	<p>Members include:</p> <ul style="list-style-type: none"> YellowActionType. YellowActionValue. 	YellowActionValue is required when YellowActionType is not 1, 10 or 19.
YellowActionType	Yellow Action Type	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> 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. 	<p>When YellowActionType is 1, send the packet.</p> <p>When YellowActionType is 2, remark DSCP value of the packet and send it.</p> <p>When YellowActionType is 3, remark IP precedence of the packet and send it.</p> <p>When YellowActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When YellowActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When YellowActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When YellowActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When YellowActionType is 8, remark local precedence of the packet and send it.</p> <p>When YellowActionType is 10, drop the packet.</p> <p>When GreenActionType is 19, continue to process the packet.</p>
YellowActionValue	Yellow Action Value	N/A	<p>Unsigned integer.</p> <p>Value range: 0 to 63.</p>	<p>When YellowActionType is 1, 10 or 19, YellowActionValue is ignored.</p> <p>When YellowActionType is 6 or 7, YellowActionValue is 0~1.</p> <p>When YellowActionType is 2, YellowActionValue is 0~63.</p> <p>When YellowActionType</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				is 3, 4, 5, 8 , YellowActionValue is 0~7.
RedAction	Specify behavior for red packets	Data structure	Members include: <ul style="list-style-type: none"> • RedActionType. • RedActionValue. 	RedActionValue is required when RedActionType is not 1, 10 or 19.
RedActionType	Red Action Type	N/A	Enumeration: <ul style="list-style-type: none"> • 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. 	<p>When RedActionType is 1, send the packet.</p> <p>When RedActionType is 2, remark DSCP value of the packet and send it.</p> <p>When RedActionType is 3, remark IP precedence of the packet and send it.</p> <p>When RedActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When RedActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When RedActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When RedActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When RedActionType is 8, remark local precedence of the packet and send it.</p> <p>When RedActionType is 10, drop the packet.</p> <p>When GreenActionType is 19, continue to process the packet.</p>
RedActionValue	Red Action Value	N/A	Unsigned integer. Value range: 0 to 63.	<p>When RedActionType is 1, 10 or 19, RedActionValue is ignored.</p> <p>When RedActionType is 6 or 7, RedActionValue is 0~1.</p> <p>When RedActionType is 2, RedActionValue is 0~63.</p> <p>When RedActionType is 3, 4, 5, 8, RedActionValue is 0~7.</p>

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. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
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>
      <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>
      <Truncation></Truncation>
    </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: <ul style="list-style-type: none"> 1—Interface. 2—CPU. 3—VLAN. 4—Slot. 5—Local. 6—GRPC. 7—IFA. 	<p>When the Type column is 1, mirror to an interface.</p> <p>When the Type column is 2, mirror to CPU.</p> <p>When the Type column is 3, mirror to VLAN.</p> <p>When the Type column is 4, traffic is mirrored to a board.</p> <p>When the Type column is 5, traffic is mirrored to the board on which the mirrored traffic is received or sent out.</p> <p>When the Type column is 6, traffic is mirrored to GRPC.</p> <p>When the Type column is 7, traffic is mirrored to inband flow analyzer processor.</p>
IfIndex	Interface index	Index	Unsigned integer.	<p>The value of this column is valid if Type is 1.</p> <p>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.</p>
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: <ul style="list-style-type: none"> DestIP SrcIP DSCP VLAN VRF 	<p>DestIP and SrcIP must both be specified.</p> <p>DSCP, VLAN and VRF can be optionally specified when DestIP and SrcIP are configured.</p> <p>This structure is valid and optional if Type is 1.</p>
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: <ul style="list-style-type: none"> 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, 5 or 7.
Truncation	Truncation packets	N/A	Boolean: <ul style="list-style-type: none"> true—Conform. 	The value of this column is valid if Type is 1.

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> false—Not conform. 	

MQC/MirrorDynamicIF

This table contains information about mirroring packets to a dynamic interface, which is found by IP address.

XML structure

```

<MQC>
  <MirrorDynamicIF>
    <Action>
      <BehaviorName></BehaviorName>
      <DestIP></DestIP>
      <SrcIP></SrcIP>
      <DSCP></DSCP>
      <VLAN></VLAN>
      <VRF></VRF>
      <Mac></Mac>
      <SamplerName></SamplerName>
      <Truncation></Truncation>
    </Action>
  </MirrorDynamicIF>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	MirrorDynamicIF
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
DestIP	Destination IP	Index	String, dotted decimal	Example: 10.153.93.54.

Column name	Column description	Column type	Data type and restrictions	Remarks
	address		notation.	
SrcIP	Source IP address	Index	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	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
SamplerName	Sampler name	N/A	String. Length: 1 to 31 characters.	The value of this column depends on the device model.
Truncation	Truncation packets	N/A	Boolean: <ul style="list-style-type: none"> true—Conform. false—Not conform. 	N/A

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: <ul style="list-style-type: none"> 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.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 1 to 4094.	
Direction	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 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. For information about IfIndex, see

Column name	Column description	Column type	Data type and restrictions	Remarks
				"Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 0—Inbound. 1—Outbound. 	N/A
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

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.
Direction	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 0—Inbound. 1—Outbound. 	N/A
PolicyName	Policy name	N/A	String. Length: 1 to 31 characters.	Required.

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:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 0—Inbound. 1—Outbound. 	
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: <ul style="list-style-type: none"> true—Conform. false—Not conform. 	N/A
Packet	Accounting in packets	N/A	Boolean: <ul style="list-style-type: none"> true—Conform. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> false—Not conform. 	

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.	Some version 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	column	Boolean <ul style="list-style-type: none"> true—Conform. false—Not conform. 	N/A

MQC/GlobalCategoryPolicy

This table contains information about QoS policies of the specified types applied globally.

XML structure

```
<MQC>
  <GlobalCategoryPolicy>
    <Application>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <PreOrder></PreOrder>
    </Application>
  </GlobalCategoryPolicy>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	GlobalCategoryPolicy
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: <ul style="list-style-type: none">• 0—Inbound.• 1—Outbound.	N/A
PolicyType	Policy type	Index	Enumeration: <ul style="list-style-type: none">• 0—Common policy (default).• 1—Remarking policy.• 2—Accounting policy.• 3—Mirroring policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
PreOrder	Application priority	N/A	Unsigned integer. Default: 0.	A greater value indicates a higher matching priority. The

Column name	Column description	Column type	Data type and restrictions	Remarks
				value range can be customized for devices. This column cannot be modified.

MQC/InterfaceCategoryPolicy

This table contains information about QoS policies of the specified types applied to interfaces.

XML structure

```

<MQC>
  <InterfaceCategoryPolicy>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <PreOrder></PreOrder>
    </Application>
  </InterfaceCategoryPolicy>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	InterfaceCategoryPolicy
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. 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> .
Direction	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 0—Inbound. 1—Outbound. 	N/A
PolicyType	Policy type	Index	Enumeration: <ul style="list-style-type: none"> 0—Common policy (default). 1—Remarking policy. 2—Accounting policy. 3—Mirroring policy. 	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
PreOrder	Application priority	N/A	Unsigned integer. Default: 0.	A greater value indicates a higher matching priority. The value range can be customized for devices. This column cannot be modified.

MQC/Telemetry

This table contains information about inband telemetry.

XML structure

```

<MQC>
  <Telemetry>
    <DeviceID></DeviceID>
    <Collector>
      <SrcIP></SrcIP>
      <DstIP></DstIP>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
      <VLANID></VLANID>
    </Collector>
  </Telemetry>
</MQC>

```

Table description

Item	Description
Feature name	MQC

Table name	Telemetry
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceID	Device address	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
Collector	Telemetry collector	N/A	Members include: <ul style="list-style-type: none"> SrcIP DstIP SrcPort DstPort VLANID 	You must specify the SrcIP, DstIP, SrcPort and DstPort when you remove or delete the telemetry collector. You must specify the SrcIP, DstIP, SrcPort and DstPort when you replace the telemetry collector, or when you merge or create the telemetry collector that does not exist.
SrcIP	Source IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
DstIP	Destination IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.54.
SrcPort	Source port	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPort	Destination port	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

MQC/TelemetryRoles

This table contains information about inband telemetry role.

XML structure

```

<MQC>
  <TelemetryRoles>
    <TelemetryRole>
      <IfIndex></IfIndex>
      <Role></Role>
    </TelemetryRole>
  </TelemetryRoles>
</MQC>

```



```

    </TelemetryRole>
  </TelemetryRoles>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	TelemetryRoles
Table type	Multi-instance table
Row name	TelemetryRole
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.	For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Role	Telemetry role	N/A	Enumeration: <ul style="list-style-type: none"> 1—Ingress. 2—Transit. 3—Egress 	N/A

MQC/TelemetryLoopbacks

This table contains information about inband telemetry loopback interfaces.

XML structure

```

<MQC>
  <TelemetryLoopbacks>
    <TelemetryLoopback>
      <IfIndex></IfIndex>
      <Loopback></Loopback>
    </TelemetryLoopback>
  </TelemetryLoopbacks>
</MQC>

```


Table description

Item	Description
Feature name	MQC
Table name	TelemetryLoopbacks
Table type	Multi-instance table
Row name	TelemetryLoopback
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.	For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Loopback	Telemetry loopback	N/A	Boolean: <ul style="list-style-type: none">true—Conform.false—Not conform.	N/A

MQC/TelemetryGlobalEnable

This table contains information about inband telemetry status.

XML structure

```
<MQC>
  <TelemetryGlobalEnable>
    <Enable></Enable>
  </TelemetryGlobalEnable>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TelemetryGlobalEnable
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	Whether to enable IFA	N/A	Boolean: <ul style="list-style-type: none">• true—Enable(default).• false—Disable.	N/A

MQC/OverheadLayer

This table contains information about processing QoS in which overhead layer type of packet considered.

XML structure

```
<MQC>
  <OverheadLayer>
    <Application>
      <Type></Type>
    </Application>
  </OverheadLayer>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	OverheadLayer
Table type	Multi-instance table
Row name	Application
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Type of overhead layer	column	Enumeration: <ul style="list-style-type: none">• 1—Link.• 2—Physics.	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	Remarks
ProcessingStatus	Global operation status	N/A	Enumeration: <ul style="list-style-type: none">1—Idle.2—Busy.	N/A

MQC/AppRunInfo

This table contains policy application information.

XML structure

```
<MQC>
  <AppRunInfo>
    <AppRunInfoEntry>
      <AppType></AppType>
      <AppMainIndex></AppMainIndex>
    </AppRunInfoEntry>
  </AppRunInfo>
</MQC>
```



```

    <AppSubIndex></AppSubIndex>
    <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: <ul style="list-style-type: none"> 1—Interface. 2—VLAN. 3—Global. 4—COPP. 	N/A
AppMainIndex	Primary index of the application	Index	Unsigned integer.	<p>The value depends on the AppType column:</p> <ul style="list-style-type: none"> Interface index if AppType is 1. 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. 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	Index	Unsigned integer.	The value depends on

Column name	Column description	Column type	Data type and restrictions	Remarks
	of the application			the AppType column: <ul style="list-style-type: none"> Slot number of the card if AppType is 4. 0 is AppType is not 4.
AppDirection	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 1—Inbound. 2—Outbound. 	N/A
AppPolicyName	Policy name	N/A	String. Length: 0 to 31 characters.	N/A
ApplyStatus	Application status	N/A	Enumeration: <ul style="list-style-type: none"> 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

Item	Description
Row name	CBRunInfoEntry
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppType	Application type	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Interface index if AppType is 1. 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. 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: <ul style="list-style-type: none"> Slot number of the card if AppType is 4. 0 is AppType is not 4.
AppDirection	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 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.	

Column name	Column description	Column type	Data type and restrictions	Remarks
CBApplStatus	Class-behavior association application status	N/A	Enumeration: <ul style="list-style-type: none"> 1—Succeeded. 2—Failed. 3—Succeeded partly. 	If a class-behavior association fails to 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Interface index if AppType is 1. 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. 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: <ul style="list-style-type: none"> Slot number of the card if AppType is 4. 0 is AppType is not 4.
AppDirection	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 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	N/A	Unsigned integer. Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	second			

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: <ul style="list-style-type: none"> 1—Interface. 2—VLAN. 3—Global. 4—COPP. 	N/A
AppMainIndex	Primary index of the application	Index	Unsigned integer.	<p>The value depends on the AppType column:</p> <ul style="list-style-type: none"> Interface index if AppType is 1. 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. 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.	<p>The value depends on the AppType column:</p> <ul style="list-style-type: none"> Slot number of the card if AppType is 4. 0 is AppType is not 4.
AppDirection	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 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 size	N/A	Unsigned integer.	The value of this column depends on the device model.
PIR	Peak information	N/A	Unsigned integer.	The value of this

Column name	Column description	Column type	Data type and restrictions	Remarks
	rate			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, 0xFFFFFFFF F 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, 0xFFFFFFFF F 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, 0xFFFFFFFF F 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, 0xFFFFFFFF F 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, 0xFFFFFFFF F 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, 0xFFFFFFFF F 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 1—System defined. 2—User defined. 	N/A

MQC/Policies

This table contains information about policies.

XML structure

```

<MQC>
  <Policies>
    <Policy>
      <Name></Name>
      <Type></Type>
      <CMapNum></CMapNum>
      <DefineMode></DefineMode>
      <NextCMapID></NextCMapID>
    </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
Type	Policy type	N/A	Enumeration: <ul style="list-style-type: none">• 0—Common policy.• 1—Remarking policy.• 2—Accounting policy.• 3—Mirroring policy.	N/A
CBMapNum	Number of class-behavior associations	N/A	Unsigned integer.	N/A
DefineMode	Define Mode.	N/A	Enumeration: <ul style="list-style-type: none">• 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>
```



```

</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: <ul style="list-style-type: none"> • 0—None. • 2—Qppb. • 16—Dcbx. 	<p>When the Mode column is 0, there is no restriction on the classifier-behavior or association.</p> <p>When the Mode column is 2, the classifier-behavior or association applies only to QPPB.</p> <p>When the Mode column is 16, the classifier-behavior or association applies only to the Data Center Bridging Exchange Protocol (DCBX).</p>
DefineMode	Define Mode.	N/A	Enumeration: <ul style="list-style-type: none"> • 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>
    <INTIFA></INTIFA>
    <OutBoundInterface></OutBoundInterface>
</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 class name	Index	String. Length: 1 to 31 characters.	N/A
RuleID	ID of the rule	Index	Unsigned integer	N/A
Not	Whether the rule is used as an unsuccessful match criterion	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No. 	N/A
PktType	Packet type to be matched	N/A	Enumeration: <ul style="list-style-type: none"> 1—Any. 2—IP. 3—IPv6. 4—Arp. 5—Bt. 6—Bridge. 7—Route. 	<p>When the PktType column is 1, the rule matches all packets.</p> <p>When the PktType column is 2, the rule matches IPv4 packets.</p> <p>When the PktType column is 3, the rule matches IPv6 packets.</p> <p>When the PktType column is 4, the rule matches ARP packets.</p> <p>When the PktType column is 5, the rule matches BitTorrent packets.</p> <p>When the PktType column is 6, the rule matches Layer 2 forwarded packets.</p> <p>When the PktType column is 7, the rule matches Layer 3 forwarded packets.</p>
Acl	Match ACL	Data structure	Members include: <ul style="list-style-type: none"> IPv4Acl. IPv6Acl. Inner. 	IPv4Acl and IPv6Acl cannot be specified together.
IPv4ACI	Match IPv4 ACL.	N/A	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> ACL name: Case-insensitive string of 1 to 63 characters. ACL number: An unsigned integer in 	An ACL name must start with an English letter and cannot be all .

Column name	Column description	Column type	Data type and restrictions	Remarks
			the range of 2000 to 3999.	
Inner	Match inner ACL.	N/A	Boolean: <ul style="list-style-type: none"> true—Conform. false—Not conform. 	N/A
IPv4ACL	Match IPv4 ACL.	N/A	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<p>Number string.</p> <p>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.</p> <p>The string must not end with a comma or hyphen, or include any whitespace characters.</p>	N/A
CustomerVLANID	Match the customer VLAN ID.	N/A	<p>Number string.</p> <p>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.</p> <p>The string must not end with a comma or hyphen, or include any whitespace characters.</p>	N/A
ServiceDot1p	Match the 802.1p priority of the service provider network.	N/A	Unsigned integer. Value range: 0 to 7.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
CustomerDot1p	Match the 802.1p priority of the customer network.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to 1048575.	
InnerMplsLabelRange	Match inner MPLS label range.	Data structure	Members include: <ul style="list-style-type: none"> • InnerLabelStart. • InnerLabelEnd. 	N/A
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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true—Conform. • false—Not conform. 	N/A
TunnelID	Match tunnel ID.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
VLANTag	Match VLAN tagging mode	N/A	Enumeration: <ul style="list-style-type: none"> • 1—None. • 2—Single-tagged. • 4—Double-tagged. 	N/A
TunnelDscpList	Match Tunnel DSCP values.	Data structure	Members include: <ul style="list-style-type: none"> • TunnelDscp. 	N/A
TunnelDscp	Match Tunnel DSCP values.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
IFA	Inband Flow Analyzer	N/A	Enumeration: <ul style="list-style-type: none"> • 1—tcp. • 2—udp. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
OutBoundInterface	Match output interface	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.

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: <ul style="list-style-type: none"> 0—CDot1pTrust. 	When the Type column is 0, configure an

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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. 	<p>inner-to-outer tag priority copying action.</p> <p>When the Type column is 1, configure a DSCP marking action.</p> <p>When the Type column is 2, configure an IP precedence marking action.</p> <p>When the Type column is 3, configure an EXP value marking action.</p> <p>When the Type column is 4, configure an 802.1p priority marking action.</p> <p>When the Type column is 5, configure the action of setting the specified local QoS ID for packets.</p> <p>When the Type column is 6, configure a local precedence marking action.</p> <p>When the Type column is 7, configure a drop priority marking action.</p> <p>When the Type column is 8, configure a CVLAN marking action.</p> <p>When the Type column is 9, configure a SVLAN marking action.</p> <p>When the Type column is 10, configure an EXP value marking action for added labels.</p> <p>When the Type column is 12, configure the action of setting the CLP bit for ATM cells.</p> <p>When the Type column is 16, configure the action of setting the service-class for MPLS traffic engineering.</p> <p>When the Type column is 17, configure a tunnel-DSCP marking action.</p>
Color	The color of affected packets	Index	<p>Enumeration:</p> <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>When- the Color column is 0, specifies all packets.</p> <p>When the Color column is 1, specifies green packets.</p> <p>When the Color column is 2, specifies yellow packets.</p> <p>When the Color column is 3, specifies red packets.</p>
Value	The value of marking action	N/A	Unsigned integer.	<p>Required when the Type column is 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 16 or 17.</p> <p>When the Type column is 0, the value is invalid.</p> <p>When the Type column is 8 or 9, the value range is 1 to 4094.</p> <p>When the Type column is 7, the value range is 0 to 2.</p> <p>When the Type column is 5, the value range is 1 to 4095.</p> <p>When the Type column is 2, 3, 4, 6 or 10, the value range is 0 to 7.</p> <p>When the Type column is 1, the value range is 0 to 63.</p> <p>When the Type column is 12, the value range is 0 to 1.</p> <p>When the Type column is 16, the value range is 0 to 7 or a customized value.</p> <p>When the Type column is 17, the value range is 0 to 63.</p>

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>
<FailoverGroup>
  <GroupName></GroupName>
  <Channel></Channel>
</FailoverGroup>
</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: <ul style="list-style-type: none"> 1—CPU. 2—Interface. 3—VSI. 4—FailoverGroup. 6—Nexthop 	<p>When the Type column is 1, redirect traffic to CPU.</p> <p>When the Type column is 2, redirect traffic to an interface.</p> <p>When the Type column is 3, redirect traffic to a virtual station interface.</p> <p>When the Type column is 4, redirect traffic to a failover group.</p> <p>When the Type column is 6, redirect traffic to</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				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. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
TrackOap	Enable the traffic redirecting action to collaborate with OAP	N/A	Boolean: <ul style="list-style-type: none"> 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. 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 .
FailoverGroup	Failover group	Data structure	Members include: <ul style="list-style-type: none"> GroupName. Channel. 	N/A
GroupName	Failover group name	N/A	String. Length: 1 to 63 characters.	The value of this column is valid if Type is 4 .
Channel	Channel	N/A	Unsigned integer. Value range: 0 to 1.	The value of this column is valid if Type is 4 . Some versions don't support this column. For relevant information, see

Column name	Column description	Column type	Data type and restrictions	Remarks
				the XSD document of your product.

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>
      <Truncation></Truncation>
    </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: <ul style="list-style-type: none"> 1—Interface. 2—CPU. 3—VLAN. 4—Slot. 5—Local. 6—GRPC. 7—IFA. 	<p>When the Type column is 1, mirror to an interface.</p> <p>When the Type column is 2, mirror to CPU.</p> <p>When the Type column is 3, mirror to VLAN.</p> <p>When the Type column is 4, traffic is mirrored to a board.</p> <p>When the Type column is 5, traffic is mirrored to the board on which the mirrored traffic is received or sent out.</p> <p>When the Type column is 6, traffic is mirrored to GRPC.</p> <p>When the Type column is 7, traffic is mirrored to inband flow analyzer processor.</p>
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. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
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: <ul style="list-style-type: none"> DestIP SrcIP DSCP VLAN VRF 	<p>DestIP and SrcIP must both be specified.</p> <p>DSCP, VLAN and VRF can be optionally specified when DestIP and SrcIP are configured.</p> <p>This structure is valid and optional if Type is 1.</p>
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: <ul style="list-style-type: none"> 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, 5 or 7.
Truncation	Truncation	N/A	Boolean:	The value of this column

Column name	Column description	Column type	Data type and restrictions	Remarks
	packets		<ul style="list-style-type: none"> true—Conform. false—Not conform. 	is valid if Type is 1.
Truncation	Truncation packets	N/A	Boolean: <ul style="list-style-type: none"> true—Conform. false—Not conform. 	The value of this column is valid if Type is 1.

MQC/MirrorDynamicIF

This table contains information about mirroring packets to a dynamic interface, which is found by IP address.

XML structure

```

<MQC>
  <MirrorDynamicIF>
    <Action>
      <BehaviorName></BehaviorName>
      <DestIP></DestIP>
      <SrcIP></SrcIP>
      <DSCP></DSCP>
      <VLAN></VLAN>
      <VRF></VRF>
      <Mac></Mac>
      <SamplerName></SamplerName>
      <Truncation></Truncation>
      <DynamicIfIndex></DynamicIfIndex>
    </Action>
  </MirrorDynamicIF>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	MirrorDynamicIF
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
DestIP	Destination IP address	Index	String, dotted decimal notation.	Example: 10.153.93.54.
SrcIP	Source IP address	Index	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	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
SamplerName	Sampler name	N/A	String. Length: 1 to 31 characters.	The value of this column depends on the device model.
Truncation	Truncation packets	N/A	Boolean: <ul style="list-style-type: none"> true—Conform. false—Not conform. 	N/A
DynamicIfIndex	Dynamic interface index	N/A	Unsigned integer.	The interface found by destination IP 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.

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: <ul style="list-style-type: none"> 1—Deny. 2—Permit. 3—None. 	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.
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
BehaviorName	Traffic behavior name	Index	String. Length: 1 to 31 characters.	N/A
BandwidthUnit	Specify bandwidth Unit	N/A	Enumeration: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> GreenActionType. GreenActionValue. 	
GreenActionType	Green Action Type	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> 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. 	<p>When GreenActionType is 1, send the packet.</p> <p>When GreenActionType is 2, remark DSCP value of the packet and send it.</p> <p>When GreenActionType is 3, remark IP precedence of the packet and send it.</p> <p>When GreenActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When GreenActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When GreenActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When GreenActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When GreenActionType is 8, remark local precedence of the packet and send it.</p> <p>When GreenActionType is 10, drop the packet.</p> <p>When GreenActionType is 19, continue to process the packet.</p>
GreenActionValue	Green Action Value	N/A	Unsigned integer.	<p>When GreenActionType is 1, 10 or 19, GreenActionValue is invisible.</p> <p>When GreenActionType is 6 or 7, GreenActionValue is 0~1.</p> <p>When GreenActionType is 2, GreenActionValue is 0~63.</p> <p>When GreenActionType is 3, 4, 5, 8, GreenActionValue is 0~7.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
YellowAction	Specify behavior for yellow packets	Data structure	Members include: <ul style="list-style-type: none"> YellowActionType. YellowActionValue. 	
YellowActionType	Yellow Action Type	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> 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. 	<p>When YellowActionType is 1, send the packet.</p> <p>When YellowActionType is 2, remark DSCP value of the packet and send it.</p> <p>When YellowActionType is 3, remark IP precedence of the packet and send it.</p> <p>When YellowActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When YellowActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When YellowActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When YellowActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When YellowActionType is 8, remark local precedence of the packet and send it.</p> <p>When YellowActionType is 10, drop the packet.</p> <p>When YellowActionType is 19, continue to process the packet.</p>
YellowActionValue	Yellow Action Value	N/A	Unsigned integer.	<p>When YellowActionType is 1, 10 or 19, YellowActionValue is invisible.</p> <p>When YellowActionType is 6 or 7, YellowActionValue is 0~1.</p> <p>When YellowActionType is 2, YellowActionValue is 0~63.</p> <p>When YellowActionType is 3, 4, 5, 8, YellowActionValue is 0~7.</p>
RedAction	Specify behavior for red packets	Data structure	Members include: <ul style="list-style-type: none"> RedActionType. RedActionValue. 	
RedActionType	Red Action Type	N/A	Enumeration:	When RedActionType is

Column name	Column description	Column type	Data type and restrictions	Remarks
e			<ul style="list-style-type: none"> 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. 	<p>1, send the packet.</p> <p>When RedActionType is 2, remark DSCP value of the packet and send it.</p> <p>When RedActionType is 3, remark IP precedence of the packet and send it.</p> <p>When RedActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When RedActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When RedActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When RedActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When RedActionType is 8, remark local precedence of the packet and send it.</p> <p>When RedActionType is 10, drop the packet.</p> <p>When RedActionType is 19, continue to process the packet.</p>
RedActionValue	Red Action Value	N/A	Unsigned integer.	<p>When RedActionType is 1, 10 or 19, RedActionValue is invisible.</p> <p>When RedActionType is 6 or 7, RedActionValue is 0~1.</p> <p>When RedActionType is 2, RedActionValue is 0~63.</p> <p>When RedActionType is 3, 4, 5, 8, RedActionValue is 0~7.</p>

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. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
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>

```



```

    </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>

```



```

    </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>

```



```

    </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. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Succeeded. 2—Failed. 	N/A
MatchedPackets	Matched 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
MatchedBytes	Matched Bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

MQC/GlobalPolicyCMap

This table contains information about class-behavior associations running information applied to global.

XML structure

```

<MQC>
  <GlobalPolicyCMap>
    <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 0—None. • 2—Qppb. • 16—Dcbx. 	<p>When the Mode column is 0, there is no restriction on the classifier-behavior or association.</p> <p>When the Mode column is 2, the classifier-behavior or association applies only to QPPB.</p> <p>When the Mode column is 16, the classifier-behavior or association applies only to the Data Center Bridging Exchange Protocol (DCBX).</p>
Status	Class-Behavior association application status	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—None. 2—Qppb. 16—Dcbx. 	<p>When the Mode column is 0, there is no restriction on the classifier-behavior association.</p> <p>When the Mode column is 2, the classifier-behavior association applies only to QPPB.</p> <p>When the Mode column is 16, the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX).</p>

Status	Class-Behavior association application status	N/A	Enumeration: <ul style="list-style-type: none"> 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. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> GreenActionType. GreenActionValue. 	
GreenActionType	Green Action Type	N/A	Enumeration: <ul style="list-style-type: none"> 1—pass. 2—remark-dscp-pass. 3—remark-prec-pass. 4—remark-mpls-exp-pass. 5—remark-dot1p-pass. 6—remark-atm-clp-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,

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 7—remark-frde-pass. 8—remark-local-prec-pass. 10—discard. 19—continue. 	<p>remark IP precedence of the packet and send it.</p> <p>When GreenActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When GreenActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When GreenActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When GreenActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When GreenActionType is 8, remark local precedence of the packet and send it.</p> <p>When GreenActionType is 10, drop the packet.</p> <p>When GreenActionType is 19, continue to process the packet.</p>
GreenActionValue	Green Action Value	N/A	Unsigned integer.	<p>When GreenActionType is 1, 10 or 19, GreenActionValue is invisible.</p> <p>When GreenActionType is 6 or 7, GreenActionValue is 0~1.</p> <p>When GreenActionType is 2, GreenActionValue is 0~63.</p> <p>When GreenActionType is 3, 4, 5, 8, GreenActionValue is 0~7.</p>
YellowAction	Specify behavior for yellow packets	Data structure	<p>Members include:</p> <ul style="list-style-type: none"> YellowActionType. YellowActionValue. 	

Column name	Column description	Column type	Data type and restrictions	Remarks
YellowActionType	Yellow Action Type	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> 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. 	<p>When YellowActionType is 1, send the packet.</p> <p>When YellowActionType is 2, remark DSCP value of the packet and send it.</p> <p>When YellowActionType is 3, remark IP precedence of the packet and send it.</p> <p>When YellowActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When YellowActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When YellowActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When YellowActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When YellowActionType is 8, remark local precedence of the packet and send it.</p> <p>When YellowActionType is 10, drop the packet.</p> <p>When GreenActionType is 19, continue to process the packet.</p>
YellowActionValue	Yellow Action Value	N/A	Unsigned integer.	<p>When YellowActionType is 1, 10 or 19, YellowActionValue is invisible.</p> <p>When YellowActionType is 6 or 7, YellowActionValue is 0~1.</p> <p>When YellowActionType is 2, YellowActionValue</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				is 0~63. When YellowActionType is 3, 4, 5, 8 , YellowActionValue is 0~7.
RedAction	Specify behavior for red packets	Data structure	Members include: <ul style="list-style-type: none"> RedActionType. RedActionValue. 	
RedActionType	Red Action Type	N/A	Enumeration: <ul style="list-style-type: none"> 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. 	<p>When RedActionType is 1, send the packet.</p> <p>When RedActionType is 2, remark DSCP value of the packet and send it.</p> <p>When RedActionType is 3, remark IP precedence of the packet and send it.</p> <p>When RedActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When RedActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When RedActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When RedActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When RedActionType is 8, remark local precedence of the packet and send it.</p> <p>When RedActionType is 10, drop the packet.</p> <p>When GreenActionType is 19, continue to process the packet.</p>
RedActionValue	Red Action Value	N/A	Unsigned integer.	<p>When RedActionType is 1, 10 or 19, RedActionValue is invisible.</p> <p>When RedActionType is 6 or 7, RedActionValue is 0~1.</p> <p>When RedActionType is 2, RedActionValue</p>

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/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. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
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. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
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
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. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
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

Column name	Column description	Column type	Data type and restrictions	Remarks
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. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: <ul style="list-style-type: none">• 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

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Mode of the class-behavior association	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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
Table name	GlobalPolicyEnhance
Table type	Multi-instance table

Item	Description
Row name	Application
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

Item	Description
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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">true—Conform.false—Not conform.	N/A
Packet	Accounting in packets	N/A	Boolean: <ul style="list-style-type: none">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>
    </Interface>
  </IfPolicyAccount>
</MQC>
```



```

    <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. For information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Direction	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> GreenActionType. GreenActionValue. 	
GreenActionType	Green Action Type	N/A	Enumeration: <ul style="list-style-type: none"> 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. 	<p>When GreenActionType is 1, send the packet.</p> <p>When GreenActionType is 2, remark DSCP value of the packet and send it.</p> <p>When GreenActionType is 3, remark IP precedence of the packet and send it.</p> <p>When GreenActionType is 4, remark EXP of the MPLS packet and send</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>it.</p> <p>When GreenActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When GreenActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When GreenActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When GreenActionType is 8, remark local precedence of the packet and send it.</p> <p>When GreenActionType is 10, drop the packet.</p> <p>When GreenActionType is 19, continue to process the packet.</p>
GreenActionValue	Green Action Value	N/A	Unsigned integer.	<p>When GreenActionType is 1, 10 or 19, GreenActionValue is invisible.</p> <p>When GreenActionType is 6 or 7, GreenActionValue is 0~1.</p> <p>When GreenActionType is 2, GreenActionValue is 0~63.</p> <p>When GreenActionType is 3, 4, 5, 8, GreenActionValue is 0~7.</p>
YellowAction	Specify behavior for yellow packets	Data structure	<p>Members include:</p> <ul style="list-style-type: none"> YellowActionType. YellowActionValue. 	
YellowActionType	Yellow Action Type	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> 1—pass. 2—remark-dscp-pass. 3—remark-prec-pass. 4—remark-mpls-exp-pass. 	<p>When YellowActionType is 1, send the packet.</p> <p>When YellowActionType is 2, remark DSCP value of the packet and send</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 5—remark-dot1p-pass. 6—remark-atm-clp-pass. 7—remark-frde-pass. 8—remark-local-prec-pass. 10—discard. 19—continue. 	<p>it.</p> <p>When YellowActionType is 3, remark IP precedence of the packet and send it.</p> <p>When YellowActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When YellowActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When YellowActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When YellowActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When YellowActionType is 8, remark local precedence of the packet and send it.</p> <p>When YellowActionType is 10, drop the packet.</p> <p>When YellowActionType is 19, continue to process the packet.</p>
YellowAction Value	Yellow Action Value	N/A	Unsigned integer.	<p>When YellowActionType is 1, 10 or 19, YellowActionValue is invisible.</p> <p>When YellowActionType is 6 or 7, YellowActionValue is 0~1.</p> <p>When YellowActionType is 2, YellowActionValue is 0~63.</p> <p>When YellowActionType is 3, 4, 5, 8, YellowActionValue is 0~7.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
RedAction	Specify behavior for red packets	Data structure	Members include: <ul style="list-style-type: none"> RedActionType. RedActionValue. 	
RedActionType	Red Action Type	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> 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. 	<p>When RedActionType is 1, send the packet.</p> <p>When RedActionType is 2, remark DSCP value of the packet and send it.</p> <p>When RedActionType is 3, remark IP precedence of the packet and send it.</p> <p>When RedActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When RedActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When RedActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When RedActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When RedActionType is 8, remark local precedence of the packet and send it.</p> <p>When RedActionType is 10, drop the packet.</p> <p>When GreenActionType is 19, continue to process the packet.</p>
RedActionValue	Red Action Value	N/A	Unsigned integer.	<p>When RedActionType is 1, 10 or 19, RedActionValue is invisible.</p> <p>When RedActionType is 6 or 7, RedActionValue is 0~1.</p> <p>When RedActionType is 2, RedActionValue is 0~63.</p> <p>When RedActionType is 3, 4, 5, 8, RedActionValue is 0~7.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> GreenActionType. GreenActionValue. 	
GreenActionType	Green Action Type	N/A	Enumeration: <ul style="list-style-type: none"> 1—pass. 2—remark-dscp-pass. 3—remark-prec-pass. 	When GreenActionType is 1 , send the packet. When GreenActionType is 2 ,

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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. 	<p>remark DSCP value of the packet and send it.</p> <p>When GreenActionType is 3, remark IP precedence of the packet and send it.</p> <p>When GreenActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When GreenActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When GreenActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When GreenActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When GreenActionType is 8, remark local precedence of the packet and send it.</p> <p>When GreenActionType is 10, drop the packet.</p> <p>When GreenActionType is 19, continue to process the packet.</p>
GreenActionValue	Green Action Value	N/A	Unsigned integer.	<p>When GreenActionType is 1, 10 or 19, GreenActionValue is invisible.</p> <p>When GreenActionType is 6 or 7, GreenActionValue is 0~1.</p> <p>When GreenActionType is 2, GreenActionValue is 0~63.</p> <p>When GreenActionType is 3, 4, 5, 8, GreenActionValue is 0~7.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
YellowAction	Specify behavior for yellow packets	Data structure	Members include: <ul style="list-style-type: none"> YellowActionType. YellowActionValue. 	
YellowActionType	Yellow Action Type	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> 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. 	<p>When YellowActionType is 1, send the packet.</p> <p>When YellowActionType is 2, remark DSCP value of the packet and send it.</p> <p>When YellowActionType is 3, remark IP precedence of the packet and send it.</p> <p>When YellowActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When YellowActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When YellowActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When YellowActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When YellowActionType is 8, remark local precedence of the packet and send it.</p> <p>When YellowActionType is 10, drop the packet.</p> <p>When GreenActionType is 19, continue to process the packet.</p>
YellowActionValue	Yellow Action Value	N/A	Unsigned integer.	<p>When YellowActionType is 1, 10 or 19, YellowActionValue is invisible.</p> <p>When YellowActionType is 6 or 7, YellowActionValue is</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> • RedActionType. • RedActionValue. 	
RedActionType	Red Action Type	N/A	Enumeration: <ul style="list-style-type: none"> • 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 RedActionType is 6 or 7,

Column name	Column description	Column type	Data type and restrictions	Remarks
				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/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
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: <ul style="list-style-type: none">• 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
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: <ul style="list-style-type: none">1—Inbound.2—Outbound.3—Both.	N/A
MQCVlanType	MQC VLAN type	N/A	Enumeration: <ul style="list-style-type: none">1—Inbound.2—Outbound.3—Both.	N/A
MQCGlobalType	MQC global type	N/A	Enumeration: <ul style="list-style-type: none">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
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	Column	Boolean <ul style="list-style-type: none">true—Conform.false—Not conform.	N/A

MQC/GlobalCategoryPolicy

This table contains information about global QoS category policies.

XML structure

```
<MQC>
  <GlobalCategoryPolicy>
    <Application>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <PreOrder></PreOrder>
      <Status></Status>
    </Application>
  </GlobalCategoryPolicy>
</MQC>
```


Table description

Item	Description
Feature name	MQC
Table name	GlobalCategoryPolicy
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: <ul style="list-style-type: none">• 0—Inbound.• 1—Outbound.	N/A
PolicyType	Policy type	Index	Enumeration: <ul style="list-style-type: none">• 0—Common policy.• 1—Remarking policy.• 2—Accounting policy.• 3—Mirroring policy.	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
PreOrder	Application priority	N/A	Unsigned integer.	N/A
Status	Application status	N/A	Enumeration: <ul style="list-style-type: none">• 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/InterfaceCategoryPolicy

This table contains information about QoS policies of the specified types applied to interfaces.

XML structure

```
<MQC>
  <InterfaceCategoryPolicy>
    <Application>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
```



```

    <PreOrder></PreOrder>
    <Status></Status>
  </Application>
</InterfaceCategoryPolicy>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	InterfaceCategoryPolicy
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. For information about IfIndex, see "Appendix" in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Direction	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 0—Inbound. 1—Outbound. 	N/A
PolicyType	Policy type	Index	Enumeration: <ul style="list-style-type: none"> 0—Common policy. 1—Remarking policy. 2—Accounting policy. 3—Mirroring policy. 	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
PreOrder	Application priority	N/A	Unsigned integer.	N/A
Status	Application status	N/A	Enumeration: <ul style="list-style-type: none"> 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/IfCategoryPolicyCBMap

This table contains information about class-behavior associations running information for QoS category policies applied to interfaces.

XML structure

```
<MQC>
  <IfCategoryPolicyCBMap>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <BehaviorName></BehaviorName>
      <Mode></Mode>
      <Status></Status>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
    </Interface>
  </IfCategoryPolicyCBMap>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfCategoryPolicyCBMap
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
Direction	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 0—Inbound. 1—Outbound. 	N/A
PolicyType	Policy type	Index	Enumeration: <ul style="list-style-type: none"> 0—Common policy. 1—Remarking policy. 2—Accounting policy. 3—Mirroring policy. 	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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/GlobalCategoryPolicyCBMap

This table contains information about class-behavior associations running information for QoS category policies applied to global.

XML structure

<MQC>


```

<GlobalCategoryPolicyCBMap>
  <Global>
    <Direction></Direction>
    <PolicyType></PolicyType>
    <PolicyName></PolicyName>
    <ClassName></ClassName>
    <BehaviorName></BehaviorName>
    <Mode></Mode>
    <Status></Status>
    <MatchedPackets></MatchedPackets>
    <MatchedBytes></MatchedBytes>
  </Global>
</GlobalCategoryPolicyCBMap>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	GlobalCategoryPolicyCBMap
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: <ul style="list-style-type: none"> 0—Inbound. 1—Outbound. 	N/A
PolicyType	Policy type	Index	Enumeration: <ul style="list-style-type: none"> 0—Common policy. 1—Remarking policy. 2—Accounting policy. 3—Mirroring policy. 	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	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: <ul style="list-style-type: none"> 0—None. 	When the Mode column is 0, there is no restriction on the

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—Qppb. 16—Dcbx. 	<p>classifier-behavior association.</p> <p>When the Mode column is 2, the classifier-behavior association applies only to QPPB.</p> <p>When the Mode column is 16, the classifier-behavior association applies only to the Data Center Bridging Exchange Protocol (DCBX).</p>
Status	Class-behavior association application status	N/A	Enumeration: <ul style="list-style-type: none"> 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/IfCategoryPolicyCar

This table contains information about car associations running information for QoS category policies applied to interfaces.

XML structure

```

<MQC>
  <IfCategoryPolicyCar>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <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>
</IfCategoryPolicyCar>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	IfCategoryPolicyCar
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> .
Direction	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 0—Inbound. 1—Outbound. 	N/A
PolicyType	Policy type	Index	Enumeration: <ul style="list-style-type: none"> 0—Common policy. 1—Remarking policy. 2—Accounting policy. 3—Mirroring policy. 	N/A
PolicyName	Policy name	Index	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	
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: <ul style="list-style-type: none"> GreenActionType. GreenActionValue. 	N/A
GreenActionType	Green Action Type	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> 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. 	<p>When GreenActionType is 1, send the packet.</p> <p>When GreenActionType is 2, remark the DSCP value of the packet and send it.</p> <p>When GreenActionType is 3, remark the IP precedence of the packet and send it.</p> <p>When GreenActionType is 4, remark the EXP of the MPLS packet and send it.</p> <p>When GreenActionType is 5, remark the 802.1p priority value of the packet and send it.</p> <p>When GreenActionType is 6, remark the CLP bit of the ATM packet and send it.</p> <p>When GreenActionType is 7, remark the DE bit of the FR packet and send it.</p> <p>When GreenActionType is 8, remark the local precedence of the packet and send it.</p> <p>When GreenActionType is</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>10, drop the packet.</p> <p>When GreenActionType is 19, continue to process the packet.</p>
GreenActionValue	Green Action Value	N/A	Unsigned integer.	<p>When GreenActionType is 1, 10, or 19, GreenActionValue is invisible.</p> <p>When GreenActionType is 6 or 7, GreenActionValue is 0~1.</p> <p>When GreenActionType is 2, GreenActionValue is 0~63.</p> <p>When GreenActionType is 3, 4, 5, or 8, GreenActionValue is 0~7.</p>
YellowAction	Specify behavior for yellow packets	Data structure	<p>Members include:</p> <ul style="list-style-type: none"> • YellowActionType. • YellowActionValue. 	N/A
YellowActionType	Yellow Action Type	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> • 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. 	<p>When YellowActionType is 1, send the packet.</p> <p>When YellowActionType is 2, remark the DSCP value of the packet and send it.</p> <p>When YellowActionType is 3, remark the IP precedence of the packet and send it.</p> <p>When YellowActionType is 4, remark the EXP of the MPLS packet and send it.</p> <p>When YellowActionType is 5, remark the 802.1p priority value of the packet and send it.</p> <p>When YellowActionType is 6, remark the CLP bit of the ATM packet and send it.</p> <p>When</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>YellowActionType is 7, remark the DE bit of the FR packet and send it.</p> <p>When YellowActionType is 8, remark the local precedence of the packet and send it.</p> <p>When YellowActionType is 10, drop the packet.</p> <p>When YellowActionType is 19, continue to process the packet.</p>
YellowActionValue	Yellow Action Value	N/A	Unsigned integer.	<p>When YellowActionType is 1, 10, or 19, YellowActionValue is invisible.</p> <p>When YellowActionType is 6 or 7, YellowActionValue is 0~1.</p> <p>When YellowActionType is 2, YellowActionValue is 0~63.</p> <p>When YellowActionType is 3, 4, 5, or 8, YellowActionValue is 0~7.</p>
RedAction	Specify behavior for red packets	Data structure	<p>Members include:</p> <ul style="list-style-type: none"> RedActionType. RedActionValue. 	N/A
RedActionType	Red Action Type	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> 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. 	<p>When RedActionType is 1, send the packet.</p> <p>When RedActionType is 2, remark the DSCP value of the packet and send it.</p> <p>When RedActionType is 3, remark the IP precedence of the packet and send it.</p> <p>When RedActionType is 4, remark the EXP of the MPLS packet and send it.</p> <p>When RedActionType is 5, remark the 802.1p priority value of the packet and send it.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>When RedActionType is 6, remark the CLP bit of the ATM packet and send it.</p> <p>When RedActionType is 7, remark the DE bit of the FR packet and send it.</p> <p>When RedActionType is 8, remark the local precedence of the packet and send it.</p> <p>When RedActionType is 10, drop the packet.</p> <p>When RedActionType is 19, continue to process the packet.</p>
RedActionValue	Red Action Value	N/A	Unsigned integer.	<p>When RedActionType is 1, 10, or 19, RedActionValue is invisible.</p> <p>When RedActionType is 6 or 7, RedActionValue is 0~1.</p> <p>When RedActionType is 2, RedActionValue is 0~63.</p> <p>When RedActionType is 3, 4, 5, 8, RedActionValue is 0~7.</p>
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/IfCategoryPolicyAF

This table contains running information about assured-forwarding queue for QoS category policies applied to interfaces.

XML structure

```
<MQC>
  <IfCategoryPolicyAF>
    <Interface>
      <IfIndex></IfIndex>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <Kbps></Kbps>
      <Bps></Bps>
      <RemainingPct></RemainingPct>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
      <EnqueuedPackets></EnqueuedPackets>
      <EnqueuedBytes></EnqueuedBytes>
      <DiscardedPackets></DiscardedPackets>
      <DiscardedBytes></DiscardedBytes>
    </Interface>
  </IfCategoryPolicyAF>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfCategoryPolicyAF
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> .
PolicyType	Policy type	Index	Enumeration: <ul style="list-style-type: none">0—Common policy.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 1—Remarking policy. 2—Accounting policy. 3—Mirroring policy. 	
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
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/IfCategoryPolicyEF

This table contains running information about expedited-forwarding queue for QoS category policies applied to interfaces.

XML structure

```

<MQC>
  <IfCategoryPolicyEF>
    <Interface>
      <IfIndex></IfIndex>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <Kbps></Kbps>
      <CBS></CBS>

```



```

    <MatchedPackets></MatchedPackets>
    <MatchedBytes></MatchedBytes>
    <EnqueuedPackets></EnqueuedPackets>
    <EnqueuedBytes></EnqueuedBytes>
    <DiscardedPackets></DiscardedPackets>
    <DiscardedBytes></DiscardedBytes>
  </Interface>
</IfCategoryPolicyEF>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	IfCategoryPolicyEF
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> .
PolicyType	Policy type	Index	Enumeration: <ul style="list-style-type: none"> 0—Common policy. 1—Remarking policy. 2—Accounting policy. 3—Mirroring policy. 	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
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
CBS	Committed Burst Size	N/A	Unsigned integer. Value range: 32 to 1,000,000,000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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/IfCategoryPolicyWFQ

This table contains running information about weighted fair queue for QoS category policies applied to interfaces.

XML structure

```

<MQC>
  <IfCategoryPolicyWFQ>
    <Interface>
      <IfIndex></IfIndex>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <QueueNum></QueueNum>
      <MatchedPackets></MatchedPackets>
      <MatchedBytes></MatchedBytes>
      <EnqueuedPackets></EnqueuedPackets>
      <EnqueuedBytes></EnqueuedBytes>
      <DiscardedPackets></DiscardedPackets>
      <DiscardedBytes></DiscardedBytes>
    </Interface>
  </IfCategoryPolicyWFQ>
</MQC>

```

Table description

Item	Description
Feature name	MQC

Item	Description
Table name	IfCategoryPolicyWFQ
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> .
PolicyType	Policy type	Index	Enumeration: <ul style="list-style-type: none"> 0—Common policy. 1—Remarking policy. 2—Accounting policy. 3—Mirroring policy. 	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	N/A
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/IfCategoryPolicyAccount

This table contains information about accounting running information for QoS category policies applied to interfaces.

XML structure

```
<MQC>
  <IfCategoryPolicyAccount>
    <Interface>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <ClassName></ClassName>
      <Packets></Packets>
      <Bytes></Bytes>
      <pps></pps>
      <bps></bps>
    </Interface>
  </IfCategoryPolicyAccount>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	IfCategoryPolicyAccount
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> .
Direction	Application	Index	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	direction		<ul style="list-style-type: none"> 0—Inbound. 1—Outbound. 	
PolicyType	Policy type	Index	Enumeration: <ul style="list-style-type: none"> 0—Common policy. 1—Remarking policy. 2—Accounting policy. 3—Mirroring policy. 	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	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/GlobalCategoryPolicyCar

This table contains information about car associations running information for QoS category policies applied to global.

XML structure

```

<MQC>
  <GlobalCategoryPolicyCar>
    <Global>
      <Direction></Direction>
      <PolicyType></PolicyType>
      <PolicyName></PolicyName>
      <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>
</GlobalCategoryPolicyCar>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	GlobalCategoryPolicyCar
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: <ul style="list-style-type: none"> 0—Inbound. 1—Outbound. 	N/A
PolicyType	Policy type	Index	Enumeration: <ul style="list-style-type: none"> 0—Common policy. 1—Remarking policy. 2—Accounting policy. 3—Mirroring policy. 	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	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	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	size			
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: <ul style="list-style-type: none"> GreenActionType. GreenActionValue. 	
GreenActionType	Green Action Type	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> 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. 	<p>When GreenActionType is 1, send the packet.</p> <p>When GreenActionType is 2, remark DSCP value of the packet and send it.</p> <p>When GreenActionType is 3, remark IP precedence of the packet and send it.</p> <p>When GreenActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When GreenActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When GreenActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When GreenActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When GreenActionType is 8, remark local precedence of the packet and send it.</p> <p>When GreenActionType is 10, drop the packet.</p> <p>When GreenActionType is 19, continue to process the packet.</p>
GreenActionValue	Green Action Value	N/A	Unsigned integer.	When GreenActionType is 1 , 10 or 19 , GreenActionValue is

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> YellowActionType. YellowActionValue. 	
YellowAction Type	Yellow Action Type	N/A	Enumeration: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>YellowActionType is 10, drop the packet.</p> <p>When YellowActionType is 19, continue to process the packet.</p>
YellowAction Value	Yellow Action Value	N/A	Unsigned integer.	<p>When YellowActionType is 1, 10, or 19, YellowActionValue is invisible.</p> <p>When YellowActionType is 6 or 7, YellowActionValue is 0~1.</p> <p>When YellowActionType is 2, YellowActionValue is 0~63.</p> <p>When YellowActionType is 3, 4, 5, 8, YellowActionValue is 0~7.</p>
RedAction	Specify behavior for red packets	Data structure	<p>Members include:</p> <ul style="list-style-type: none"> RedActionType. RedActionValue. 	
RedActionType	Red Action Type	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> 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. 	<p>When RedActionType is 1, send the packet.</p> <p>When RedActionType is 2, remark DSCP value of the packet and send it.</p> <p>When RedActionType is 3, remark IP precedence of the packet and send it.</p> <p>When RedActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When RedActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When RedActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When RedActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When RedActionType</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				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.
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/GlobalCategoryPolicyAccount

This table contains information about accounting running information for QoS category policies applied to global.

XML structure

```

<MQC>
  <GlobalCategoryPolicyAccount>
    <Global>
      <Direction></Direction>

```



```

    <PolicyType></PolicyType>
    <PolicyName></PolicyName>
    <ClassName></ClassName>
    <Packets></Packets>
    <Bytes></Bytes>
    <pps></pps>
    <bps></bps>
  </Global>
</GlobalCategoryPolicyAccount>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	GlobalCategoryPolicyAccount
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: <ul style="list-style-type: none"> 0—Inbound. 1—Outbound. 	N/A
PolicyType	Policy type	Index	Enumeration: <ul style="list-style-type: none"> 0—Common policy. 1—Remarking policy. 2—Accounting policy. 3—Mirroring policy. 	N/A
PolicyName	Policy name	Index	String. Length: 1 to 31 characters.	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.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0 to $2^{64} - 1$.	

MQC/Telemetry

This table contains information about inband telemetry.

XML structure

```
<MQC>
  <Telemetry>
    <DeviceID></DeviceID>
    <Collector>
      <SrcIP></SrcIP>
      <DstIP></DstIP>
      <SrcPort></SrcPort>
      <DstPort></DstPort>
      <VLANID></VLANID>
    </Collector>
  </Telemetry>
</MQC>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceID	Device IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
Collector	Telemetry collector	N/A	Members include: <ul style="list-style-type: none"> SrcIP DstIP SrcPort DstPort VLANID 	You must specify the SrcIP, DstIP, SrcPort and DstPort when you remove or delete the telemetry collector. You must specify the SrcIP, DstIP,

				SrcPort and DstPort when you replace the telemetry collector, or when you merge or create the telemetry collector that does not exist.
SrcIP	Source IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.60.
DstIP	Destination IP address	N/A	String, dotted decimal notation.	Example: 10.153.93.54.
SrcPort	Source port	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
DstPort	Destination port	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
VLANID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

MQC/TelemetryRoles

This table contains information about inband telemetry roles.

XML structure

```

<MQC>
  <TelemetryRoles>
    <TelemetryRole>
      <IfIndex></IfIndex>
      <Role></Role>
    </TelemetryRole>
  </TelemetryRoles>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	TelemetryRoles
Table type	Multi-instance table
Row name	TelemetryRole
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	For information about IfIndex, see “Appendix” in Ifmgr NETCONF XML API Configuration Reference.
Role	Telemetry role	N/A	Enumeration: <ul style="list-style-type: none">• 1—Ingress.• 2—Transit.• 3—Egress	N/A

MQC/TelemetryLoopbacks

This table contains information about inband telemetry loopback interfaces.

XML structure

```
<MQC>
  <TelemetryLoopbacks>
    <TelemetryLoopback>
      <IfIndex></IfIndex>
      <Loopback></Loopback>
    </TelemetryLoopback>
  </TelemetryLoopbacks>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TelemetryLoopbacks
Table type	Multi-instance table
Row name	TelemetryLoopback
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	<ul style="list-style-type: none">• Unsigned integer.	For information about IfIndex, see “Appendix” in Ifmgr NETCONF

Column name	Column description	Column type	Data type and restrictions	Remarks
				XML API Configuration Reference.
Loopback	Telemetry loopback	N/A	Boolean: <ul style="list-style-type: none"> true—Conform. false—Not conform. 	N/A

MQC/TelemetryGlobalEnable

This table contains information about inband telemetry status.

XML structure

```
<MQC>
  <TelemetryGlobalEnable>
    <Enable></Enable>
  </TelemetryGlobalEnable>
</MQC>
```

Table description

Item	Description
Feature name	MQC
Table name	TelemetryGlobalEnable
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 IFA	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A

MQC/Capabilities

This table contains capability information about the MQC module.

XML structure

```
<MQC>
```



```

<Capabilities>
  <InterfacePolicy></InterfacePolicy>
  <GlobalPolicy></GlobalPolicy>
  <VlanPolicy></VlanPolicy>
  <RemarkAction></RemarkAction>
  <HardwareAccount></HardwareAccount>
  <MirrorInterface></MirrorInterface>
  <MirrorCPU></MirrorCPU>
  <RedirectInterface></RedirectInterface>
  <RedirectCPU></RedirectCPU>
</Capabilities>
</MQC>

```

Table description

Item	Description
Feature name	MQC
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
InterfacePolicy	Interface policy	N/A	Unsigned integer	<p>If one of the last 5 bits of this object is set to 1, it indicates that the interface policy is supported:</p> <ul style="list-style-type: none"> bit 0 stands for inbound. bit 1 stands for outbound. bit 2 stands for enhanced. bit 3 stands for extension. bit 4 stands for share mode.
GlobalPolicy	Global policy	N/A	Unsigned integer	<p>If one of the last 5 bits of this object is set to 1, it indicates that the global policy is supported:</p> <ul style="list-style-type: none"> bit 0 stands for inbound. bit 1 stands for outbound. bit 2 stands for enhanced. bit 3 stands for extension. bit 4 stands for share mode.
VlanPolicy	VLAN policy	N/A	Unsigned integer	<p>If one of the last 5 bits of this object is set to 1, it indicates that the VLAN policy is supported:</p> <ul style="list-style-type: none"> bit 0 stands for inbound. bit 1 stands for outbound.

Column name	Column description	Column type	Data type and restrictions	Remarks
				<ul style="list-style-type: none"> bit 2 stands for enhanced. bit 3 stands for extension. bit 4 stands for share mode.
RemarkAction	Remark action	N/A	Unsigned integer	<p>If one of the last 18 bits of this object is set to 1, it indicates that the remark action is supported:</p> <ul style="list-style-type: none"> bit 0 stands for DSCP. bit 1 stands for IP precedence. bit 2 stands for MPLS-EXP. bit 3 stands for dot1p. bit 4 stands for local QoS ID. bit 5 stands for local precedence. bit 6 stands for drop precedence. bit 7 stands for customer VLAN ID. bit 8 stands for service VLAN ID. bit 9 stands for customer dot1p trust. bit 10 stands for imposition-mpls-exp. bit 11 stands for FC. bit 12 stands for atm-clp. bit 13 stands for fr-de. bit 14 stands for second-mpls-exp. bit 15 stands for account level. bit 16 stands for service class. bit 17 stands for tunnel dscp.
HardwareAccount	Hardware accounting	N/A	Unsigned integer	<p>0 indicates that the accounting action is supported.</p> <p>1 indicates that accounting by the default method is supported.</p> <p>2 indicates that accounting by one method of packet and byte is supported.</p> <p>3 indicates that accounting by neither method or one of packet and byte is supported.</p> <p>4 indicates that accounting by neither method or one or two of packet and byte is supported.</p>
MirrorInterface	Mirror traffic to interface	N/A	Unsigned integer	<p>If one of the last 23 bits of this object is set to 1, it indicates that mirroring traffic to an interface of the specified type is supported:</p> <ul style="list-style-type: none"> bit 0 stands for l2ethernet. bit 1 stands for l2ge. bit 2 stands for l2xge.

Column name	Column description	Column type	Data type and restrictions	Remarks
				<ul style="list-style-type: none"> bit 3 stands for l2fge. bit 4 stands for l2hge. bit 5 stands for l3ethernet. bit 6 stands for l3ge. bit 7 stands for l3xge. bit 8 stands for l3fge. bit 9 stands for l3hge. bit 10 stands for tunnel. bit 11 stands for ragg. bit 12 stands for bagg. bit 13 stands for l2tge. bit 14 stands for l3tge. bit 15 stands for blade. bit 16 stands for blagg. bit 17 stands for olt. bit 18 stands for l2wge. bit 19 stands for l3wge. bit 20 stands for l2sge. bit 21 stands for l3sge. bit 22 stands for loopback.
MirrorCPU	Mirror traffic to CPU	N/A	Unsigned integer: <ul style="list-style-type: none"> 0—Not supported. 1—Supported. 	N/A
RedirectInterface	Redirect traffic to interface	N/A	Unsigned integer	If one of the last 23 bits of this object is set to 1, it indicates that redirecting traffic to an interface of the specified type is supported, <ul style="list-style-type: none"> bit 0 stands for l2ethernet. bit 1 stands for l2ge. bit 2 stands for l2xge. bit 3 stands for l2fge. bit 4 stands for l2hge. bit 5 stands for l3ethernet. bit 6 stands for l3ge. bit 7 stands for l3xge. bit 8 stands for l3fge. bit 9 stands for l3hge. bit 10 stands for tunnel. bit 11 stands for ragg. bit 12 stands for bagg. bit 13 stands for l2tge. bit 14 stands for l3tge. bit 15 stands for blade. bit 16 stands for blagg. bit 17 stands for olt. bit 18 stands for l2wge. bit 19 stands for l3wge. bit 20 stands for l2sge.

Column name	Column description	Column type	Data type and restrictions	Remarks
				<ul style="list-style-type: none"> bit 21 stands for l3sge. bit 22 stands for loopback.
RedirectCPU	Redirect traffic to CPU	N/A	Unsigned integer: <ul style="list-style-type: none"> 0—Not supported. 1—Supported. 	N/A

MQC/OverheadLayer

This table contains information about processing QoS in which overhead layer type of packet considered.

XML structure

```

<MQC>
  <OverheadLayer>
    <Application>
      <Type></Type>
    </Application>
  </OverheadLayer>
</MQC>

```

Table description

Item	Description
Feature name	MQC
Table name	OverheadLayer
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 overhead layer	N/A	Enumeration: <ul style="list-style-type: none"> 1—Link. 2—Physics. 	N/A

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- MQC1
 - MQC1
 - MQC/Redirect3
 - MQC/SQ4

MQC

MQC

Message	Explanation
System-defined classifiers can't be modified or deleted. 系统预定义的类不能被修改或删除。	System-defined classifiers can't be modified or deleted. 不能修改、删除系统预定义的流分类。
System-defined behaviors can't be modified or deleted. 系统预定义的流行为不能被修改或删除。	System-defined behaviors can't be modified or deleted. 不能修改、删除系统预定义的流行为。
System-defined policies can't be modified or deleted. 系统预定义的策略不能被修改或删除。	System-defined policies can't be modified or deleted. 不能修改、删除系统预定义的QoS策略。
Maximum number of classifiers already reached. 类的配置数已达到最大值。	Maximum number of classifiers already reached, can't create. 流分类的配置数目达到上限，不能再创建。
Maximum number of match criteria already reached. 规则的配置数已达到最大值。	Maximum number of match criteria already reached, can't create. 匹配数据包规则的配置数目达到上限，不能再创建。
Maximum number of QoS policies already reached. 策略的配置数已达到最大值。	Maximum number of QoS policies already reached can't create. QoS策略的配置数目达到上限，不能再创建。
Can't delete the policy because it has been applied. 该策略已经被应用，无法删除。	Can't delete the policy because it has been applied. QoS策略已经被应用，不能删除该QoS策略。
The QoS policy doesn't exist. 该策略不存在。	The QoS policy doesn't exist. QoS策略不存在。
The classifier is being used by a QoS policy. 该类正在被策略使用。	The classifier is being used by a QoS policy. 流分类被QoS策略使用时，不能删除。
Maximum number of behaviors already reached. 流行为的配置数已达到最大值。	Maximum number of behaviors already reached can't create. 流行为的配置数目达到上限，不能再创建。
The behavior is being used by a QoS policy. 该流行为正在被策略使用。	The behavior is being used by a QoS policy can't delete. 流行为被QoS策略使用时，不能删除。
Another QoS policy has already been applied. Please view the current configuration. 已经应用了其他策略，请查看当前配置。	Another QoS policy has already been applied can apply. Please view the current configuration. 不能在已经应用了QoS策略的对象下再应用QoS策略。
Maximum number of classifiers allowed in one QoS policy already reached. 策略下所配的类的数目已达到最大值。	Maximum number of classifiers allowed in one QoS policy already reached can't create. QoS策略下的流分类数量达到上限，不能再应用。
The QoS policy has already been applied.Please view the current configuration. 该策略已经应用，请查看当前配置。	The QoS policy has already been applied can repeat apply. Please view the current configuration. 不能重复应用QoS策略。
The classifier is being used by another classifier. 该类正被其他类使用。	The classifier is being used by another classifier can't create. 被流分类引用的流分类不允许删除。

Marking dot1p is not supported. 不支持重标记到dot1p。	Marking dot1p is not supported. 某些应用对象不支持重标记到dot1p动作。
Marking dot1p can be applied only in the outbound direction. 重标记到dot1p只能被应用到出方向。	Marking dot1p can be applied only in the outbound direction. 重标记到dot1p只能被应用到出方向。
Marking ATM CLP is supported only on ATM PVCs. 重标记到ATM CLP只支持应用到ATM PVC上。	Marking ATM CLP is supported only on ATM PVCs. 重标记到ATM CLP只支持应用到ATM PVC上。
Marking ATM CLP can be applied only in the outbound direction. 重标记到ATM CLP只能被应用到出方向。	Marking ATM CLP can be applied only in the outbound direction. 重标记到ATM CLP只能被应用到出方向。
The traffic class associated with the traffic behavior already exists. classifier指定的类已存在。	The traffic class associated with the traffic behavior already exists can use insert-before mode. 不能对已应用的流分类指定 insert-before 模式。
The traffic class specified after the insert-before keyword doesn't exist. insert-before指定的类不存在。	The traffic class specified after the insert-before keyword doesn't exist. insert-before指定的类不存在。
Marking service class can be applied only in the inbound direction. 重标记到Service Class只能被应用到入方向。	Marking service class can be applied only in the inbound direction. 重标记到Service Class只能被应用到入方向。
MPLS label value range error. MPLS标签的范围配置有误。	MPLS label value range error. label-value1 should be smaller than label-value2 匹配MPLS标签规则时， <i>label-value1</i> 的值必须小于 <i>label-value2</i> 的值。
The start port can't be greater than the end port. 起始端口号不能比结束端口号大。	The start RTP port can't be greater than the end RTP port. 匹配RTP协议端口规则时，起始RTP端口号必须小于结束RTP端口号。
The minimum packet length can't be greater than the maximum packet length. 报文的最小长度不能大于最大长度。	The minimum packet length can't be greater than the maximum packet length when if-match packet length. 匹配报文长度规则时，报文的最小长度不能大于最大长度。
The classifier doesn't exist. 该类不存在。	The classifier doesn't exist, create rule failed. 添加流分类规则时，若流分类不存在，添加失败。
The behavior doesn't exist. 该流行为不存在。	The behavior doesn't exist, create action failed. 添加流行为动作时，若流行为不存在，添加失败。
A QoS policy can be applied only to the inbound direction of an interface if a behavior in the QoS policy contains the remark tunnel-dscp command. 当QoS策略的流行为中配置了remark tunnel-dscp时，该策略只能应用到接口入方向。	A QoS policy can be applied only to the inbound direction of an interface if a behavior in the QoS policy contains the remark tunnel-dscp command. 当QoS策略的流行为中配置了remark tunnel-dscp时，该策略只能应用到接口入方向。
The remark tunnel-dscp command and the remark dscp or remark ip-precedence command are mutually exclusive in a behavior. 同一个流行为中，如果已配置remark dscp命令或remark ip-precedence命令，则不允许再配置remark tunnel-dscp命令，反之亦然。	The remark tunnel-dscp command and the remark dscp or remark ip-precedence command are mutually exclusive in a behavior. 同一个流行为中，如果已配置remark dscp命令或remark ip-precedence命令，则不允许再配置remark tunnel-dscp命令，反之亦然。
The policy name has been used by another type of policy.	The policy name has been used by another type of policy, create policy failed.

这个策略名称已被其他类型策略使用。	创建策略时，若名称已被其他类型策略使用，创建失败。
Another QoS policy of the same type has already been applied. Please view the current configuration. 已经应用了相同类型的其他策略，请查看当前配置。	Another QoS policy of the same type has already been applied. Please view the current configuration. 已经应用了相同类型的其他策略，请查看当前配置。
The preorder for the applied QoS policy cannot be dynamically modified. 应用策略的匹配优先级不能动态修改。	The preorder for the applied QoS policy cannot be dynamically modified. 应用策略的匹配优先级不能动态修改。
The QoS policy type cannot be dynamically modified. QoS策略类型不支持动态修改。	The QoS policy type cannot be dynamically modified. QoS策略类型不支持动态修改。
Failed to apply the QoS policy, because the preorder value has been specified for another QoS policy that is applied to the same direction of the interface. QoS策略应用失败，同一方向应用不同QoS策略时不能配置相同的preorder-value。	Failed to apply the QoS policy, because the preorder value has been specified for another QoS policy that is applied to the same direction of the interface. QoS策略应用失败，同一方向应用不同QoS策略时不能配置相同的preorder-value。
Failed to apply the QoS policy, because the preorder value has been specified for another QoS policy that is applied to the same direction globally. QoS策略应用失败，同一方向应用不同QoS策略时不能配置相同的preorder-value。	Failed to apply the QoS policy, because the preorder value has been specified for another QoS policy that is applied to the same direction globally. QoS策略应用失败，同一方向应用不同QoS策略时不能配置相同的preorder-value。
The operation is not supported, because the interface belongs to an aggregation group. 设备不支持对加入聚合组的接口执行本操作。	The operation is not supported, because the interface belongs to an aggregation group. 设备不支持对加入聚合组的接口执行应用QoS策略操作。

MQC/Redirect

Message	Explanation
Another mirroring already exists, delete it first. 另一种镜像配置已经存在，请先删除。	Another mirroring already exists, delete it first. 流行为下只能配置一种类型镜像配置，配置第二种失败。
Conflicts with another interface. 与另一个接口冲突。	Conflicts with another interface when mirror to interface. 配置镜像到接口时，若与已存在的镜像接口配置冲突，配置失败。
The destination MAC address is invalid. 无效的目的MAC地址。	The destination MAC address is invalid when mirror to interface. 镜像到接口时配置的MAC无效，配置失败。
Invalid IP address. 无效的IP地址。	Invalid IP address. 镜像到接口时配置的源IP或目的IP无效，配置失败。
The backup next-hop address or track entry ID can't be the same as the primary one. 备用和主用下一跳的地址或Track索引不能相同。	The backup next-hop address or track entry ID can't be the same as the primary one. 重定向到指定的下一跳时，备用和主用下一跳的地址或Track索引不能相同。
The backup slot can't be the same as the primary slot. 主备slot-number不能相同。	The backup slot can't be the same as the primary slot. 重定向到指定单板，主备slot-number不能相同。

The slot has been specified as the backup slot. 主用slot-number已被指定为备用slot-number。	The slot has been specified as the backup slot. 重定向到指定单板，主用slot-number已被指定为备用slot-number。
The specified backup slot has been used. 备用slot-number已经被使用。	The specified backup slot has been used. 重定向到指定单板，备用slot-number已经被使用。

MQC/SQ

Message	Explanation
Please remove AF queuing configuration first. 请先删除AF队列的配置。	Please remove AF queuing configuration first, when configure another queuing features. 流行为下已配置 AF 队列再切换其他队列时失败，需要先删除 AF 队列。
Please remove EF queuing configuration first. 请先删除EF队列的配置。	Please remove EF queuing configuration first, when configure another queuing features. 流行为下已配置EF队列再切换其他队列时失败，需要先删除EF队列。
Please remove WFQ configuration first. 请先删除WFQ队列的配置。	Please remove WFQ configuration first, when configure another queuing features. 流行为下已配置WFQ队列再切换其他队列时失败，需要先删除WFQ队列。
In this QoS policy, no more AF queues can be defined. 在此QOS策略中，配置AF队列个数已达上限。	In this QoS policy, no more AF queues can be defined. QoS策略中，配置AF队列个数已达上限
In one QoS policy, the total bandwidth should not exceed 100 percent. 在一个QOS策略中，总带宽百分比不能超过百分之百。	In one QoS policy, the total bandwidth should not exceed 100 percent. 在一个QOS策略中，总带宽百分比不能超过百分之百。
The CBQ behavior in the QoS policy can be applied only in the outbound direction of an interface. 在QOS策略里，包含CBQ的流行为只能应用在接口的出方向上。	The CBQ behavior in the QoS policy can be applied only in the outbound direction of an interface. 在QOS策略里，包含CBQ的流行为只能应用在接口的出方向上。
Please disable other queuing features first. 请先移除其他队列。	Please disable other queuing features first, when configure another queuing features. 配置CBQ时，需要删除应用了改CBQ的对象上的接口队列配置。
Requested bandwidth exceeds the max reserved bandwidth. 请求带宽已超过预留带宽的最大值。	Requested bandwidth exceeds the max reserved bandwidth. 请求带宽已超过预留带宽的最大值。
In one QoS policy, the same bandwidth unit must be used. 在同一QOS策略中，应使用相同的带宽单元。	In one QoS policy, the same bandwidth unit must be used. 在同一QOS策略中，应使用相同的带宽单元。
In this QoS policy, no more EF queues can be defined. 在此QOS策略中，EF队列数已达上限。	In this QoS policy, no more EF queues can be defined. 在此QOS策略中，EF队列数已达上限。
EF queuing can't be configured for the default class.	EF queuing can't be configured for the default class.

配置了EF队列的流行为不能与缺省类关联使用。	配置了EF队列的流行为不能与缺省类关联使用。
WFQ can be configured only for the default class. 配置了WFQ队列的流行为仅可以与缺省类关联使用。	WFQ can be configured only for the default class. 配置了WFQ队列的流行为仅可以与缺省类关联使用。
Please configure GTS in the parent policy first. 请先在父策略中配置GTS。	Please configure GTS in the parent policy first. 嵌套策略配置CBQ，需要父策略配置GTS。
Only percent CBQ can be configured when percent GTS configured. 父策略配置了百分比形式的GTS,则子策略CBQ带宽必须配置成百分比形式。	Only percent CBQ can be configured when percent GTS configured. 父策略配置了百分比形式的GTS,则子策略CBQ带宽必须配置成百分比形式。
CBQ can be applied only in the outbound direction of this interface. CBQ必须应用在接口的出方向。	CBQ can be applied only in the outbound direction of this interface. CBQ必须应用在接口的出方向。
The requested bandwidth of this policy exceeds the available bandwidth on this interface. 此策略的请求带宽已超过接口可用带宽。	The requested bandwidth of this policy exceeds the available bandwidth on this interface. 应用策略配置的请求带宽已超过此接口的可用带宽。
Please remove SP queuing configuration first. 请先删除SP队列配置。	Please remove SP queuing configuration first, when configure another queuing features. 流行为下已配置EF队列再切换其他队列时失败，需要先删除SP队列。

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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.

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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

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Mroute

Mroute/Ipv4Instances

Message	Explanation
MRIB is not configured.	During executing set operation, MRIB is not configured.
MRIB is not ready.	During executing set operation, MRIB is not complete startup.
Maximum number of VRFs that are enabled with IP multicast routing already reached.	During creating a new multicast VRF, maximum number of VRFs that are enabled with IP multicast routing already reached.
IP multicast routing is not enabled.	During executing set operation, IP multicast routing is not enabled.

Mroute/Ipv4Mroutes

Message	Explanation
MRIB is not configured.	During executing set operation, MRIB is not configured.
MRIB is not ready.	During executing set operation, MRIB is not complete startup.

Mroute/Ipv4OutIfs

Message	Explanation
MRIB is not configured.	During executing set operation, MRIB is not configured.
MRIB is not ready.	During executing set operation, MRIB is not complete startup.

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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.

NAT/ResetInboundStaticCount

This table contains information about one-to-one or net-to-net mappings for inbound static NAT.

XML structure

```

<NAT>
  <ResetInboundStaticCount>
    <Mapping>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <StartIpv4Address></StartIpv4Address>
        <EndIpv4Address></EndIpv4Address>
        <GlobalObjGrp></GlobalObjGrp>
      </GlobalInfo>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
        <LocalObjGrp></LocalObjGrp>
      </LocalInfo>
    </Mapping>
  </ResetInboundStaticCount>
</NAT>

```


Table description

Item	Description
Feature name	NAT
Table name	ResetInboundStaticCount
Table type	Single-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: <ul style="list-style-type: none"> GlobalVRF. StartIpv4Address. EndIpv4Address. GlobalObjGrp 	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.
GlobalObjGrp	Object group of external address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
LocalInfo	Internal network address information	Data structure.	Members include: <ul style="list-style-type: none"> LocalVRF. Ipv4Address. Ipv4PrefixLength. LocalObjGrp 	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.
LocalObjGrp	Object group of internal address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A

NAT/ResetOutboundStaticCount

This table contains information about one-to-one or net-to-net mappings for outbound static NAT.

XML structure

```

<NAT>
  <ResetOutboundStaticCount>
    <Mapping>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <StartIpv4Address></StartIpv4Address>
        <EndIpv4Address></EndIpv4Address>
        <LocalObjGrp></LocalObjGrp>
      </LocalInfo>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <Ipv4Address></Ipv4Address>
        <Ipv4PrefixLength></Ipv4PrefixLength>
        <GlobalObjGrp></GlobalObjGrp>
      </GlobalInfo>
    </Mapping>
  </ResetOutboundStaticCount>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	ResetOutboundStaticCount
Table type	Single-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: <ul style="list-style-type: none"> LocalVRF. StartIpv4Address. EndIpv4Address. LocalObjGrp. 	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.
LocalObjGrp	Object group of internal address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
GlobalInfo	External network address information	Data structure.	Members include: <ul style="list-style-type: none"> GlobalVRF. Ipv4Address. Ipv4PrefixLength. GlobalObjGrp. 	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.
GlobalObjGrp	Object group of external address pool	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A

NAT/ResetInboundDynamicCount

This table contains the inbound dynamic NAT rules on interfaces.

XML structure

```
<NAT>
  <ResetInboundDynamicCount>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
    </Interface>
  </ResetInboundDynamicCount>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ResetInboundDynamicCount
Table type	Single-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	N/A	String. case-sensitive. Length: 1 to 99 characters.	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.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	An ACL can be used by only one inbound

Column name	Column description	Column type	Data type and restrictions	Remarks
				dynamic NAT rule an interface.

NAT/ResetOutboundDynamicCount

This table contains the outbound dynamic NAT rules on interfaces.

XML structure

```

<NAT>
  <ResetOutboundDynamicCount>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
    </Interface>
  </ResetOutboundDynamicCount>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	ResetOutboundDynamicCount
Table type	Single-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	N/A	String. case-sensitive. Length: 1 to 99 characters.	<p>This column can only be the index of local VA, global VA or Layer 3 interfaces except loopback, NULL, FC, FCB and encrypt interfaces.</p> <p>Some versions support interface name. For relevant information, see the XSD document of your product. For information about</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999.	<p>If you do not specify any ACL, NAT translates all packets, else translates the packets which matches the ACL.</p> <p>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.</p> <p>An ACL can be used by only one outbound dynamic NAT rule on an interface.</p> <p>This column can be null.</p>

NAT/ResetServerCount

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>
  <ResetServerCount>
    <Interface>
      <IfIndex></IfIndex>
      <ProtocolType></ProtocolType>
      <GlobalInfo>
        <GlobalVRF></GlobalVRF>
        <GlobalStartIpv4Address></GlobalStartIpv4Address>
        <GlobalEndIpv4Address></GlobalEndIpv4Address>
        <GlobalStartPortNumber></GlobalStartPortNumber>
        <GlobalEndPortNumber></GlobalEndPortNumber>
        <GlobalIfIndex></GlobalIfIndex>
      </GlobalInfo>
    </Interface>
  </ResetServerCount>
</NAT>

```


Table description

Item	Description
Feature name	NAT
Table name	ResetServerCount
Table type	Single-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	N/A	String, case-sensitive. Length: 1 to 99 characters.	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.
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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>than the GlobalEndIpv4Address. If they are the same, the external address pool has only one address.</p> <p>The external address pool can contain a maximum of 255 addresses.</p> <p>This index can be null.</p>
GlobalEndIpv4Address	End IPv4 address of an external address pool	Index	String, dotted decimal notation.	<p>Example: 1.1.1.6.</p> <p>This index can be null.</p>
GlobalStartPortNumber	Start port of an external port number range	Index	Unsigned integer. Value range: 1 to 65535.	<p>The GlobalStartPortNumber cannot be greater than the GlobalEndPortNumber. If they are the same, the external port number range has only one port.</p> <p>The external port number range can include a maximum of 255 ports.</p> <p>This index can be null.</p>
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 or interface name, The IP address of the interface is used as the NAT address for the internal server.	N/A	String, case-sensitive. Length: 1 to 99 characters.	<p>Only loopback interfaces and " IfIndex " are supported. Some versions support interface name. For relevant information,</p> <p>The IP address of the interface is used as the NAT address. Easy IP is used.</p> <p>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</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				takes effect. This index can be null.

NAT/ResetOutboundPortBlockCount

This table contains the port block groups applied to the outbound direction of the interfaces.

XML structure

```

<NAT>
  <ResetOutboundPortBlockCount>
    <Interface>
      <IfIndex></IfIndex>
      <GroupNumber></GroupNumber>
    </Interface>
  </ResetOutboundPortBlockCount>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	ResetOutboundPortBlockCount
Table type	Single-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	N/A	String. case-sensitive. Length: 1 to 99 characters.	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

Column name	Column description	Column type	Data type and restrictions	Remarks
				IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
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/PolicyRuleMove

Move the policy rules of order.

XML structure

```

<NAT>
  <PolicyRuleMove>
    <Rule>
      <SrcRuleName></SrcRuleName>
      <DstRuleName></DstRuleName>
      <Direction></Direction>
    </Rule>
  </PolicyRuleMove>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	PolicyRuleMove
Table type	Muilt-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcRuleName	source policy rule	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
DstRuleName	destination policy rule	Index	String, case insensitive. Length: 1 to 63 characters.	This column can be null.
Direction	Move the rule to before or after the objective rule	Index	Boolean: <ul style="list-style-type: none">true—YESfalse—NO(default).	If the direction is false and the DstRuleName is null, the srcRuleName is moved to the front If the direction is true and the DstRuleName is null, the srcRuleName is moved to the end.

NAT/ResetPolicyRuleCount

This table contains NAT policy information.

XML structure

```
<NAT>
  <ResetPolicyRuleCount>
    <Rule>
      <RuleName></RuleName>
    </Rule>
  </ResetPolicyRuleCount>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ResetPolicyRuleCount
Table type	Single-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT policy rule	Index	String, case insensitive. Length: 1 to 63 characters.	N/A

NAT/ResetObjServerCount

This table contains the object server NAT rules on interfaces.

XML structure

```
<NAT>
  <ResetObjServerCount>
    <Rule>
      <RuleName></RuleName>
    </Rule>
  </ResetObjServerCount>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	ResetObjServerCount
Table type	Single-instance table
Row name	Rule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT Object Server	Index	String, case insensitive. Length: 1 to 63 characters.	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
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
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

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>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.</p> <p>In a NAT address group, the port block size cannot be larger than the number of ports in the port range.</p> <p>Configure this item before configuring <i>ExtendedBlockNumber</i>, deleting this item also deletes <i>ExtendedBlockNumber</i>.</p>
ExtendedBlockNumber	The number of extended port blocks.	N/A	Unsigned integer. Value range: 1 to 5.	<p>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.</p> <p>A user can contain up to <i>ExtendedBlockNumber</i>+1 port blocks at the same time.</p> <p>If you want to configure this you must first configure the <i>PortBlocksize</i>.</p>
StartPort	Start port of the port range.	N/A	Unsigned integer. Value range: 1 to 65535. Default: 1.	<p>Set <i>StartPort</i> and <i>EndPort</i> to their default values to define a default port range.</p> <p>The <i>StartPort</i> cannot be greater than the <i>EndPort</i>.</p> <p>The number of ports in a port range cannot be smaller than the port block size.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
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

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>they are the same, the group member has only one IP address.</p> <p>The IP addresses of address members on the device must not overlap.</p> <p>The source address in a packet destined for an external network is translated into an address in one of group members.</p>
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>
      <Counting></Counting>
    </Interface>
  </InboundDynamicRules>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	InboundDynamicRules
Table type	Multi-instance table

Item	Description
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. 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.
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: <ul style="list-style-type: none"> 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.
Reversible	Whether translates the destination address of a packet that originates from internal hosts to the external host if the packet is permitted by	N/A	Boolean: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
	ACL reverse matching in NO-PAT mode.			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: <ul style="list-style-type: none"> true—YES false—NO(default). 	<p>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.</p> <p>This column can only be configured in NO-PAT mode.</p>
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.
Counting	Whether open the switch of matching the inbound dynamic NAT rule statistics	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default) 	N/A

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>
    <Counting></Counting>
  </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.
ACLNumber	ACL number	Index	Unsigned integer. Value range: 2000 to 3999. OR String, case-sensitive. Length: 1 to 63 characters.	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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> 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.
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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.
Counting	Whether open the switch of matching the outbound dynamic NAT rule statistics	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A

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>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </LocalInfo>
      <ACLNumber></ACLNumber>
      <Reversible></Reversible>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
      <Counting></Counting>
    </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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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.
Ipv4PrefixLen	The prefix length	Index	Unsigned integer.	Value 32 indicates

Column name	Column description	Column type	Data type and restrictions	Remarks
gth	of the internal network address		Value range: 8 to 32.	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.	<p>If you do not specify an ACL, the source addresses of all incoming packets and the destination addresses of all outgoing packets are translated.</p> <p>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.</p> <p>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.</p>
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: <ul style="list-style-type: none"> true—YES false—NO(default). 	<p>Support for this keyword depends on the device model.</p> <p>This column can only be configured when <i>ACLNumber</i> is also configured.</p>
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.
Counting	Whether open the switch of matching the NAT inbound static mapping statistics	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A

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>
      <Counting></Counting>
    </Mapping>
  </OutboundStaticMappings>
</NAT>

```

Table description

Item	Description
Feature name	NAT

Item	Description
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	If you do not specify an ACL, the source addresses of all outgoing packets and

Column name	Column description	Column type	Data type and restrictions	Remarks
			String, case-sensitive. Length: 1 to 63 characters.	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: <ul style="list-style-type: none"> 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 (@).
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.

Column name	Column description	Column type	Data type and restrictions	Remarks
Counting	Whether open the switch of matching the NAT outbound static mapping statistics	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A

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.
EnableStatic	Whether enable	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	static NAT on the interface		<ul style="list-style-type: none"> true—YES false—NO(default). 	

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>
      <Counting></Counting>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
    </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: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
				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 takes effect. This index can be null.
LocalInfo	Internal network address information	Data structure.	Members include: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
				The internal port number range can include a maximum of 255 ports.
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. 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 translation is supported.	N/A	Boolean: <ul style="list-style-type: none"> 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.
Counting	Whether open the switch of matching the NAT server statistics	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default) 	N/A
RuleName	Name of the NAT Server	N/A	String, case insensitive. Length:1 to 63 characters.	N/A
RulePriority	Priority of the server 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 the lowest.

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.
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
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.

Column name	Column description	Column type	Data type and restrictions	Remarks
				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>
      <GroupName></GroupName>
      <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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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 information of public IP address members in NAT port block groups.

XML structure

```

<NAT>
  <PortBlockGroupGlobalMembers>
    <GlobalMember>
      <GroupName></GroupName>
      <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.	<p>You can specify multiple public IP address members in a port block group, but they cannot overlap.</p> <p>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.</p> <p>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.</p>
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.	<p>Example: 1.1.1.6.</p> <p>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 public IP address.</p>

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>
      <Counting></Counting>
    </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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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.
Counting	Whether open the switch of matching the NAT portblock group statistics	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A

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: <ul style="list-style-type: none"> 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>

```



```

    <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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">true—YESfalse—NO(default).	<ul style="list-style-type: none">• 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>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.</p> <p>This configuration takes effect only on outbound PAT. Address and Port-Dependent Mapping always applies to inbound PAT.</p>
ACLNumber	ACL number	N/A	<p>Unsigned integer. Value range: 2000 to 3999.</p> <p>OR</p> <p>String, case-sensitive. Length: 1 to 63 characters.</p>	<p>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.</p> <p>This field is available only when <i>EnableEIM</i> is set to true.</p>

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: <ul style="list-style-type: none">true—YESfalse—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>

```

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: <ul style="list-style-type: none"> EnableGlobalLog. ACLNumber. 	N/A
EnableGlobalLog	Whether enable the NAT logging function.	N/A	Boolean: <ul style="list-style-type: none"> 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. 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				<i>EnableGlobalLog</i> is set to true.
EnableFlowBeginLog	Whether enable logging for NAT session establishment events.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A
ActiveFlowLog	Active flow log configuration.	Data structure.	Members include: <ul style="list-style-type: none"> EnableActiveFlowLog. Interval. 	N/A
EnableActiveFlowLog	Whether enable logging for active NAT flows.	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	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: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A
EnablePortBlockWithdrawLog	Whether enable logging for port block withdrawing.	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A
EnableAlarmLog	Whether enable logging for alarm.	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A

NAT/HotBackup

This table contains NAT hot backup 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: <ul style="list-style-type: none">true—YESfalse—NO(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: <ul style="list-style-type: none">true—YESfalse—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	<ul style="list-style-type: none">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.

Column name	Column description	Column type	Data type and restrictions	Remarks
				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.
EnableReply Redirect	Whether enable redirect reply-route on the interface	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A

NAT/NATPolicy

This table contains informations about NAT policy.

XML structure

```

<NAT>
  <NatPolicy>
    <Policy></Policy>
  </NatPolicy>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	NatPolicy
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
Policy	Whether enable NAT policy	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default) 	N/A

NAT/PolicyRules

This table contains informations about NAT policy rules

XML structure

```
<NAT>
  <PolicyRules>
    <Rule>
      <RuleName></RuleName>
    </Rule>
  </PolicyRules>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	PolicyRules
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
RuleName	Name of the NAT policy rule	Index	String. case insensitive. Length:1 to 63 characters.	N/A

NAT/PolicyRuleMembers

This table contains information about the NAT policy rule members.

XML structure

```
<NAT>
  <PolicyRuleMembers>
    <Rule>
      <RuleName></RuleName>
      <Description></Description>
    </Rule>
  </PolicyRuleMembers>
</NAT>
```



```

    <OutboundInterface><OutboundInterface>
    <Action></Action>
    <AddrGroupNumber></AddrGroupNumber>
    <AddrGroupName></AddrGroupName>
    <Reversible></Reversible>
    <PortPreserved></PortPreserved>
    <Disable></Disable>
    <Counting></Counting>
  </Rule>
</PolicyRuleMembers>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	PolicyRuleMembers
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
RuleName	Name of the NAT policy	Index	String. case insensitive. Length:1 to 63 characters.	N/A
Description	Rule description	N/A	String.case-sensitive. Length: 1 to 63 characters.	N/A
OutboundInterface	Interface index or interface name	N/A	String.case-sensitive. Length: 1 to 99 characters.	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
Action	Action on packets matching the rule	N/A	Enumeration 0—NO-PAT 1—PAT. 2—EasyIp 3—NO-Nat.	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. The address of the interface will be used when you chose the EasyIp. Choose NO-Nat when Perform no address translation.
AddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 0 to 65535	When you choose the EasyIP mode,The value of the column must be invalid. An address group cannot be used by both the nat inbound and nat outbound configuration. It cannot be used by the nat outbound configuration in both PAT and NO-PAT modes.
AddrGroupName	NAT address group name	N/A	String.case-sensitive. Length: 1 to 63 characters.	Both AddrGroupName and AddrNumber has been configured, the AddrGroupName will be used.
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 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 and EasyIP mode.
Disable	Disable the rule.	N/A	Boolean: • true—YES • false—NO(default)	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Counting	Enabling status of NAT policy match counting	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default) 	N/A

NAT/PolicyRuleMemberSrcObj

This table contains information about the NAT policy rule source object-group.

XML structure

```

<NAT>
  <PolicyRuleMemberSrcObj>
    <Rule>
      <RuleName></RuleName>
      <SrcObjGrpList>
        <SrcIpObj></SrcIpObj>
      </SrcObjGrpList>
    </Rule>
  </PolicyRuleMemberSrcObj>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	PolicyRuleMemberSrcObj
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
RuleName	Name of the NAT policy	Index	String. case insensitive. Length:1 to 63 characters.	N/A
SrcObjGrpList	Policy rule source objectgroup	Data structure	Members include: <ul style="list-style-type: none"> SrclpObj. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcIpObj	Name of the Source IP objectgroup	N/A	String. case insensitive. Length: 1 to 31 characters.	N/A

NAT/PolicyRuleMemberDstObj

This table contains information about the NAT policy rule destination object-group.

XML structure

```

<NAT>
  <PolicyRuleMemberDstObj>
    <Rule>
      <RuleName></RuleName>
      <DstObjGrpList>
        <DstIpObj></DstIpObj>
      </DstObjGrpList>
    </Rule>
  </PolicyRuleMemberDstObj>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	PolicyRuleMemberDstObj
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
RuleName	Name of the NAT policy	Index	String. case insensitive. Length:1 to 63 characters.	N/A
DstObjGrpList	Policy rule destination objectgroup	Data structure	Members include: <ul style="list-style-type: none"> DstIpObj. 	N/A
DstIpObj	Name of the Destination IP	N/A	String. case insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	objectgroup		Length: 1 to 31 characters	

NAT/PolicyRuleMemberSrvObj

This table contains information about the NAT policy rule service object-group.

XML structure

```

<NAT>
  <PolicyRuleMemberSrvObj>
    <Rule>
      <RuleName></RuleName>
      <SrvObjGrpList>
        <SrvObj></SrvObj>
      </SrvObjGrpList>
    </Rule>
  </PolicyRuleMemberSrvObj>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	PolicyRuleMemberSrvObj
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
RuleName	Name of the NAT policy	Index	String. case insensitive. Length:1 to 63 characters.	N/A
SrvObjGrpList	Policy rule service objectgroup	Data structure	Members include: <ul style="list-style-type: none"> SrvObj 	N/A
SrvObj	Name of the Service objectgroup	N/A	String. case insensitive. Length: 1 to 31 characters.	N/A

NAT/DestinationNatOnInterfaces

This table contains information about the NAT acl server.

XML structure

```
<NAT>
  <DestinationNatOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <LocalIpv4Address></LocalIpv4Address>
        <LocalPortNumber></LocalPortNumber>
      </LocalInfo>
      <Action></Action>
      <Disable></Disable>
      <Description></Description>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
    </Interface>
  </DestinationNatOnInterfaces>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	DestinationNatOnInterfaces
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.
ACLNumber	ACL number	index	Unsigned integer. Value range: 2000 to 3999	N/A
LocalInfo	Internal network address information	Data structure	Members include: <ul style="list-style-type: none"> LocalVRF LocalIpv4Address LocalPortNumber 	N/A
LocalVRF	VRF of internal address	N/A	String, case-sensitive Length: 1 to 31 characters.	N/A
LocalIpv4Address	IPv4 address of the internal address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LocalPortNumber	An internal port number	N/A	Unsigned integer. Value range: 1 to 65535	N/A
Disable	Disable the rule.	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A
Description	Rule description	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
RuleName	Name of the NAT acl server	N/A	String, case insensitive. Length: 1 to 63 characters.	N/A
RulePriority	Priority of the server 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 the lowest.

NAT/ObjServer

This table contains information about the NAT object server.

XML structure

```

<NAT>
  <ObjServer>
    <Rule>
      <RuleName></RuleName>
      <IfIndex></IfIndex>
      <DstObjGrpList>
        <DstObjGrp></DstObjGrp>
      </DstObjGrpList>
      <SrvObjGrpList>
        <SrvObjGrp></SrvObjGrp>
      </SrvObjGrpList>
    </Rule>
  </ObjServer>
</NAT>

```



```

</SrvObjGrpList>
<Action></Action>
<LocalInfo>
  <LocalIP></LocalIP>
  <LocalPort></LocalPort>
</LocalInfo>
<Disable></Disable>
<Counting></Counting>
</Rule>
</ObjServer>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	ObjServer
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
RuleName	Name of the NAT object server	Index	String, case insensitive. Length: 1 to 63 characters.	N/A
IfIndex	Interface index or interface name	N/A	String, case-sensitive. Length: 1 to 99 characters.	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.
DstObjGrpList	Destination object group	Data structure	Members include: DstObjGrp	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DstObjGrp	Name of the destination object group	N/A	String, case insensitive. Length: 1 to 31 characters.	The column is repeatable. The maximum is 5.
SrvObjGrpList	Service object group	Data structure	Members include: SrvObjGrp	N/A
SrvObjGrp	Service object group	N/A	String, case insensitive. Length: 1 to 31 characters.	The column is repeatable. The maximum is 1.
Action	Action on packets matching the rule	N/A	Enumeration 0—net-to-single.	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.
LocalInfo	Internal network address information	Data structure	Members include: • LocalIP LocalPort	N/A
LocalIP	IPv4 address of the internal address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LocalPort	Internal port number	N/A	Unsigned integer. Value range: 1 to 65535	N/A
Disable	Disable the rule.	N/A	Boolean: • true—YES false—NO(default)	N/A
Counting	Whether enabling counting NAT object server statistics	N/A	Boolean: • true—YES false—NO(default)	N/A

NAT/ObjServerName

This table contains information about the name of NAT object server.

XML structure

```

<NAT>
  <ObjServerName>
    <Rule>
      <RuleName></RuleName>
    </Rule>
  </ObjServerName>
</NAT>

```


Table description

Item	Description
Feature name	NAT
Table name	ObjServerName
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
RuleName	Name of the NAT object server	Index	String, case insensitive. Length: 1 to 63 characters.	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
				<p>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.</p> <p>In a NAT address group, the port block size cannot be larger than the number of ports in the port range.</p> <p>Configure this item before configuring <i>ExtendedBlockNumber</i>, deleting this item also deletes <i>ExtendedBlockNumber</i>.</p>
ExtendedBlockNumber	The number of extended port blocks.	N/A	Unsigned integer. Value range: 1 to 5.	<p>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.</p> <p>A user can contain up to <i>ExtendedBlockNumber</i>+1 port blocks at the same time.</p> <p>If you want to configure this you must first configure the <i>PortBlocksize</i>.</p>
StartPort	Start port of the port range.	N/A	Unsigned integer. Value range: 1 to 65535.	<p>Set <i>StartPort</i> and <i>EndPort</i> to their default values to define a default port range.</p> <p>The <i>StartPort</i> cannot be greater than the <i>EndPort</i>.</p> <p>The number of ports in a port range cannot be smaller than the port block size.</p>
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>
    <MatchingCount></MatchingCount>
    <Counting></Counting>
  </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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.
MatchingCount	Number of packets matching 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
	inbound dynamic NAT rule.			
Counting	Whether open the switch of matching the inbound dynamic NAT rule statistics	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO. 	N/A

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>
      <MatchingCount></MatchingCount>
      <Counting></Counting>
    </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. Length: 1 to 63 characters.	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 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	N/A	Boolean:	NO-PAT mode can't be configured without

Column name	Column description	Column type	Data type and restrictions	Remarks
	address translation.		<ul style="list-style-type: none"> true—YES false—NO. 	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 host if the packet is permitted by ACL reverse matching in NO-PAT mode.	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO. 	This column can only be configured in NO-PAT mode.
PortPreserved	Whether tries to preserve port number for PAT.	N/A	Boolean: <ul style="list-style-type: none"> 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.
MatchingCount	Number of packets matching the outbound dynamic NAT rule.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
Counting	Whether open the switch of matching the outbound dynamic NAT rule statistics	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO. 	N/A

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>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </LocalInfo>
      <ACLNumber></ACLNumber>
      <Reversible></Reversible>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
      <MatchingCount></MatchingCount>
      <Counting></Counting>
    </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	Data structure.	Members include: <ul style="list-style-type: none">GlobalVRF.	EndIpv4Address is optional when configure

Column name	Column description	Column type	Data type and restrictions	Remarks
	information		<ul style="list-style-type: none"> StartIpv4Address. EndIpv4Address. 	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.	<p>Example: 1.1.1.1.</p> <p>The StartIpv4Address cannot be greater than the EndIpv4Address. If they are the same, the external address pool has only one address.</p> <p>The external address pool can contain a maximum of 255 addresses.</p>
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.	<p>Members include:</p> <ul style="list-style-type: none"> 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	<p>Unsigned integer. Value range: 2000 to 3999.</p> <p>OR</p> <p>String, case-sensitive. Length: 1 to 63 characters.</p>	<p>If you do not specify an ACL, the source addresses of all incoming packets and the destination addresses of all outgoing packets are translated.</p> <p>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.</p> <p>If you specify both an ACL and the reversible</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> 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.
MatchingCount	Number of packets matching the NAT inbound static mapping	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
Counting	Whether open the switch of matching the NAT inbound static mapping statistics	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO. 	N/A

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>
      <MatchingCount></MatchingCount>
      <Counting></Counting>
    </Mapping>
  </OutboundStaticMappings>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	OutboundStaticMappings
Table type	Multi-instance table
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: <ul style="list-style-type: none">LocalVRF.StartIpv4Address.EndIpv4Address.	EndIpv4Address is optional when configure one-to-one mapping for outbound static NAT.
LocalVRF	VRF of internal	Index	String, case-sensitive.	To specify a public IP

Column name	Column description	Column type	Data type and restrictions	Remarks
	address pool		Length: 1 to 31 characters.	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: <ul style="list-style-type: none"> 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 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> 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.
MatchingCount	Number of packets matching the NAT outbound static mapping	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
Counting	Whether open the switch of matching the NAT outbound static mapping statistics	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO. 	N/A

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: <ul style="list-style-type: none"> true—YES false—NO. 	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

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
Table name	ServerGroupMembers
Table type	Multi-instance table
Row name	GroupMember

Item	Description
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>
      </LocalInfo>
    </Interface>
  </ServerOnInterfaces>
</NAT>

```



```

        <LocalSrvGroupName></LocalSrvGroupName>
    </LocalInfo>
    <ACLNumber></ACLNumber>
    <Reversible></Reversible>
    <MatchingCount></MatchingCount>
    <Counting></Counting>
    <RuleName></RuleName>
    <RulePriority></RulePriority>
</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: <ul style="list-style-type: none"> 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.	<p>The GlobalStartIpv4Address cannot be greater than the GlobalEndIpv4Address. If they are the same, the external address pool has only one address.</p> <p>The external address pool can contain a maximum of 255 addresses.</p> <p>This index can be null.</p>
GlobalEndIpv4Address	End IPv4 address of an external address pool	Index	String, dotted decimal notation.	<p>Example: 1.1.1.6.</p> <p>This index can be null.</p>
GlobalStartPortNumber	Start port of an external port number range	Index	Unsigned integer. Value range: 1 to 65535.	<p>The GlobalStartPortNumber cannot be greater than the GlobalEndPortNumber. If they are the same, the external port number range has only one port.</p> <p>The external port number range can include a maximum of 255 ports.</p> <p>This index can be null.</p>
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.	<p>Only loopback interfaces and " IfIndex " are supported.</p> <p>The IP address of the interface is used as the NAT address. Easy IP is used.</p> <p>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</p>

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—YES. 	Reverse address translation applies to

Column name	Column description	Column type	Data type and restrictions	Remarks
	translation is supported.		<ul style="list-style-type: none"> 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.
MatchingCount	Number of packets matching the NAT server	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
Counting	Whether open the switch of matching the NAT server statistics	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO. 	N/A
RuleName	Name of the NAT server	N/A	String, case insensitive. Length:1 to 63 characters.	N/A
RulePriority	Priority of the server 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 the lowest.

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 N consecutive external port numbers	An internal address and an internal port number.
	N consecutive internal addresses and an internal port number.
	An internal address and N consecutive internal port numbers.
N consecutive external addresses	An internal address.
	N consecutive internal addresses.
N consecutive external addresses and an external port number	An internal address and an internal port number.
	N consecutive external addresses and an internal port number.
	An internal address and N consecutive internal port numbers.
An external address and an external port number	An internal server group.
An external address and N consecutive external port numbers	
N 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

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
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.	<p>You can specify multiple private IP address members in a port block group, but they cannot overlap.</p> <p>Private IP address members in different port block groups can overlap.</p> <p>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.</p>
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	Index	String, dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
	address member			
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 specify 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

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

				<p>they cannot overlap.</p> <p>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.</p> <p>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.</p>
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.	<p>Example: 1.1.1.6.</p> <p>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 public IP address.</p>

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>
      <MatchingCount></MatchingCount>
      <Counting></Counting>
    </Interface>
  </OutboundPortBlockOnInterfaces>
</NAT>

```

Table description

Item	Description
Feature name	NAT

Item	Description
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.
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.
MatchingCount	Number of packets matching the NAT portblock group.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A
Counting	Whether open the switch of matching the NAT portblock group statistics	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO. 	N/A

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: <ul style="list-style-type: none">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	N/A	String, dotted decimal notation.	Example: 1.1.1.6. The Ipv4Address and IfIndex are two configuration modes,

	external network.			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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—YES false—NO. 	<p>• 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.</p> <p>• 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</p>

				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>

```

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: <ul style="list-style-type: none"> 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>

```



```

    </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: <ul style="list-style-type: none"> EnableGlobalLog. ACLNumber. 	N/A
EnableGlobalLog	Whether enable the NAT logging function.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—YES false—NO. 	N/A
ActiveFlowLog	Active flow log configuration.	Data structure.	Members include: <ul style="list-style-type: none"> EnableActiveFlowLog. Interval. 	N/A
EnableActiveFlowLog	Whether enable logging for active NAT flows.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—YES false—NO. 	N/A
EnablePortBlockWithdrawLog	Whether enable logging for port block withdrawing.	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO. 	N/A
EnableAlarmLog	Whether enable logging for alarm.	N/A	Boolean: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> true—YES false—NO. 	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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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 created.	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 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: <ul style="list-style-type: none">true—YESfalse—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

Item	Description
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">true—YESfalse—NO.	N/A

NAT/NATPolicy

This table contains information about NAT policy.

XML structure

```
<NAT>
  <NatPolicy>
    <Policy></Policy>
  </NatPolicy>
</NAT>
```

Table description

Item	Description
Feature name	NAT
Table name	NatPolicy
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Policy	View of the Nat policy	N/A	Boolean: <ul style="list-style-type: none">true—YESfalse—NO.	N/A

NAT/PolicyRules

This table contains information about NAT policy rules.

XML structure

```
<NAT>
  <PolicyRules>
    <Rule>
      <RuleName></RuleName>
    </Rule>
  </PolicyRules>
</NAT>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT policy rule	Index	String.case insensitive. Length:1 to 63 characters.	N/A

NAT/PolicyRuleMembers

This table contains information about the NAT policy rule members.

XML structure

```
<NAT>
  <PolicyRuleMembers>
    <Rule>
      <RuleName></RuleName>
      <Description></Description>
      <OutboundInterface></OutboundInterface>
      <SrcObjGrpList>
        <SrcIpObjGroup></SrcIpObjGroup>
      </SrcObjGrpList>
      <DstObjGrpList>
        <DstIpObjGroup></DstIpObjGroup>
      </DstObjGrpList>
      <SrvObjGrpList>
        <ServiceObjGroup></ServiceObjGroup>
      </SrvObjGrpList>
      <Action></Action>
      <AddrGroupNumber></AddrGroupNumber>
      <AddrGroupName></AddrGroupName>
      <Reversible></Reversible>
      <PortPreserved></PortPreserved>
      <Disable></Disable>
      <Counting></Counting>
      <MatchingCount></MatchingCount>
    </Rule>
  </PolicyRuleMembers>
</NAT>
```

Table description

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

Columns

Column name	Column description		Data type and restrictions	Remarks
RuleName	Name of the NAT policy rule	Index	String. case insensitive. Length:1 to 63 characters.	N/A
Description	Rule description	N/A	String. case-sensitive. Length: 1 to 63 characters.	N/A
OutboundInterface	Interface index or interface name	N/A	String. case-sensitive. Length: 1 to 99 characters.	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.
SrcObjGrpList	Source object group of the policy rule	Data structure	Members include: • SrcIpObjGroup.	N/A
SrcIpObjGroup	Name of the Source IP object group	N/A	String. case insensitive. Length: 1 to 31 characters.	N/A
DstObjGrpList	Destination object group of the policy rule	Data structure	Members include: • DstIpObjGroup.	N/A
DstIpObjGroup	Name of the Destination IP object group	N/A	String. case insensitive. Length: 1 to 31 characters.	N/A
SrvObjGrpList	Service object group of the policy rule	Data structure	Members include: • ServiceIpObjGroup.	N/A
ServiceObjGroup	Name of the Service object group	N/A	String. case insensitive.. Length: 1 to 31 characters.	N/A

Column name	Column description		Data type and restrictions	Remarks
Action	Action on packets matching the rule	N/A	Enumeration: 0—NO-PAT. 1—PAT. 2—EasyIP. 3—NO-Nat.	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. The address of the interface will be used when you choose the EasyIP. Choose NO-Nat when Perform no address translation.
AddrGroupNumber	NAT address group number	N/A	Unsigned integer. Value range: 0 to 65535.	When you choose the EasyIP mode, The value of the column must be invalid. An address group cannot be used by both the nat inbound and nat outbound configuration. It cannot be used by the nat outbound configuration in both PAT and NO-PAT modes.
AddrGroupName	NAT address group name	N/A	String.case-sensitive. Length: 1 to 63 characters.	N/A
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 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 and EasyIP mode.
Disable	Disable the rule.	N/A	Boolean: • true—YES • false—NO.	N/A

Column name	Column description		Data type and restrictions	Remarks
Counting	Enabling status of NAT policy match counting	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO. 	N/A
MatchingCount	Number of packets matching the NAT policy.	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$.	N/A

NAT/PolicyRuleMemberSrcObj

This table contains information about the NAT policy rule source object-group.

XML structure

```

<NAT>
  <PolicyRuleMemberSrcObj>
    <Rule>
      <RuleName></RuleName>
      <SrcObjGrpList>
        <SrcIpObj></SrcIpObj>
      </SrcObjGrpList>
    </Rule>
  </PolicyRuleMemberSrcObj>
</NAT>

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT policy rule	Index	String. case insensitive. Length:1 to 63 characters.	N/A
SrcObjGrpList	Policy rule source object group	Data structure	Members include: <ul style="list-style-type: none">SrcIpObj.	N/A
SrcIpObj	Name of the Source IP object group	N/A	String. case insensitive. Length: 1 to 31 characters.	N/A

NAT/PolicyRuleMemberDstObj

This table contains information about the NAT policy rule destination object-group.

XML structure

```
<NAT>
  <PolicyRuleMemberDstObj>
    <Rule>
      <RuleName></RuleName>
      <DstObjGrpList>
        <DstIpObj></DstIpObj>
      </DstObjGrpList>
    </Rule>
  </PolicyRuleMemberDstObj>
</NAT>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT policy rule	Index	String. case insensitive. Length:1 to 63 characters.	N/A
DstObjGrpList	Policy rule destination object group	Data structure	Members include: <ul style="list-style-type: none">DstIpObj.	N/A
DstIpObj	Name of the Destination IP object group	N/A	String. case insensitive. Length: 1 to 31 characters.	N/A

NAT/PolicyRuleMemberSrvObj

This table contains information about the NAT policy rule service object-group.

XML structure

```
<NAT>
  <PolicyRuleMemberSrvObj>
    <Rule>
      <RuleName></RuleName>
      <SrvObjGrpList>
        <SrvObj></SrvObj>
      </SrvObjGrpList>
    </Rule>
  </PolicyRuleMemberSrvObj>
</NAT>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT policy rule	Index	String. case insensitive. Length:1 to 63 characters.	N/A
SrvObjGrpList	Policy rule service object group	Data structure	Members include: <ul style="list-style-type: none"> SrvObj. 	N/A
SrvObj	Name of the Service object group	N/A	String. case insensitive. Length: 1 to 31 characters.	N/A

NAT/DestinationNatOnInterfaces

This table contains information about the NAT acl server.

XML structure

```

<NAT>
  <DestinationNatOnInterfaces>
    <Interface>
      <IfIndex></IfIndex>
      <ACLNumber></ACLNumber>
      <LocalInfo>
        <LocalVRF></LocalVRF>
        <LocalIpv4Address></LocalIpv4Address>
        <LocalPortNumber></LocalPortNumber>
      </LocalInfo>
      <Action></Action>
      <Disable></Disable>
      <Description></Description>
      <RuleName></RuleName>
      <RulePriority></RulePriority>
    </Interface>
  </DestinationNatOnInterfaces>
</NAT>

```

Table description

Item	Description
Feature name	NAT
Table name	DestinationNatOnInterfaces
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 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	N/A
LocalInfo	Internal network address information	Data structure	Members include: <ul style="list-style-type: none"> LocalVRF. LocalIpv4Address. LocalIpv4Address.. 	N/A
LocalVRF	VRF of internal address	N/A	String. case-sensitive Length: 1 to 31 characters.	N/A
LocalIpv4Address	IPv4 address of the internal address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LocalPortNumber	An internal port number	N/A	Unsigned integer. Value range: 1 to 65535	N/A
Disable	Disable the rule.	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO. 	N/A
Description	Rule description	N/A	String.case-sensitive. Length: 1 to 63 characters.	N/A
RuleName	Name of the NAT ACLserver	N/A	String, case insensitive. Length:1 to 63 characters.	N/A
RulePriority	Priority of the server 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 the lowest.

NAT/ObjServer

This table contains information about the NAT object server.

XML structure

```
<NAT>
  <ObjServer>
    <Rule>
      <RuleName></RuleName>
      <IfIndex></IfIndex>
      <DstObjGrpList>
        <DstObjGrp></DstObjGrp>
      </DstObjGrpList>
      <SrvObjGrpList>
        <SrvObjGrp></SrvObjGrp>
      </SrvObjGrpList>
      <Action></Action>
      <LocalInfo>
        <LocalIP></LocalIP>
        <LocalPort></LocalPort>
      </LocalInfo>
      <Disable></Disable>
      <Counting></Counting>
      <MatchingCount></MatchingCount>
      <TotalCount></TotalCount>
    </Rule>
  </ObjServer>
</NAT>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleName	Name of the NAT object server	Index	String, case insensitive. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index or interface name	N/A	String, case-sensitive.Length: 1 to 99 characters.	<p>This column can only be the index of local VA, global VA or Layer 3 interfaces except loopback, NULL, FC, FCB and encrypt interfaces.</p> <p>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.</p>
DstObjGrpList	Destination object group in the rule	Data structure	Members include: <ul style="list-style-type: none"> • DstObjGrp. 	N/A
DstObjGrp	Name of the destination object group	N/A	String, case in sensitive. Length: 1 to 31 characters	The column is repeatable. The maximum is 5.
SrvObjGrpList	Service object group in the rule	Data structure	Members include: <ul style="list-style-type: none"> • SrvObjGrp. 	N/A
SrvObjGrp	Name of the service object group	N/A	String, case insensitive. Length: 1 to 31 characters.	The column is repeatable. The maximum is 1.
Action	Action on packets matching the rule	N/A	Enumeration 0—net-to-single.	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.
LocalInfo	Internal network address information	Data structure	Members include: <ul style="list-style-type: none"> • LocalIP. • LocalPort. 	N/A
LocalIP	IPv4 address of the internal address	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LocalPort	Internal port	N/A	Unsigned integer. Value range: 1 to 65535.	N/A
Disable	Disable the rule	N/A	Boolean: <ul style="list-style-type: none"> • true—YES • false—NO. 	N/A
TotalCount	Total number of the NAT object server rule	N/A	Unsigned integer.	The number of query result or total number of the server configurations.
MatchingCoun	Number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
t	packets matching obj server		Value range: 0 to $2^{32} - 1$.	
Counting	Whether enabling counting NAT obj server statistics	N/A	Boolean: <ul style="list-style-type: none"> • true—YES • false—NO. 	N/A

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Comware 7 NAT NETCONF XML API Error Message Reference

NAT/InboundDynamicRules

Message	Explanation
The address group is already used by outbound dynamic NAT.	An address group could not be used by outbound or inbound at the same time.
The address group is already used by inbound PAT.	An address group could not be used by PAT or NO-PAT at the same time.
The address group is already used by inbound NO-PAT.	An address group could not be used by PAT or NO-PAT at the same time.
An address group is required.	This message means address group not be configured.
This device doesn't support inbound dynamic NAT rules.	This message means device doesn't support inbound dynamic NAT rules.

NAT/OutboundDynamicRules

Message	Explanation
The address group is already used by outbound dynamic NAT.	An address group could not be used by outbound or inbound at the same time.
The address group is already used by inbound PAT.	An address group could not be used by PAT or NO-PAT at the same time.
The address group is already used by inbound NO-PAT.	An address group could not be used by PAT or NO-PAT at the same time.
Only one outbound dynamic NAT rule can be configured for the same flow on the interface.	Same ACL has been configured for another outbound dynamic NAT rules on this interface.
PAT doesn't support reverse address translation.	PAT mode doesn't support reverse address translation.
NO-PAT doesn't support port number preservation.	NO-PAT mode doesn't support port number preservation.
NO-PAT doesn't support Easy IP.	Easy IP and NO-PAT are mutually exclusive.

NAT/ServerOnInterfaces

Message	Explanation
The public address and port configuration overlaps with existing public address and port configuration on the interface.	The public address and port already configured by another nat server rules.
End public address can't be smaller than start public address.	Global end address could not less than global start address.
End public port number can't be smaller than start public port number.	Global end port number could not less than global start port number.

End private address can't be smaller than start private address.	Local end address could not less than local start address.
End private port number can't be smaller than start private port number.	Local end port number could not less than local start port number.
Number of addresses in the public IP address range exceeded the limit.	Difference between global end address and global start address is greater than 255.
Number of ports in the public port range exceeded the limit.	Difference between global end port number and global start port number is greater than 255.
Number of IP addresses is not equal to number of ports.	Total global IP numbers must be equal to total local port numbers.
Number of public ports is not equal to number of private ports.	The global port range size must be equal to local port range size.
Number of public IP addresses is not equal to number of private IP addresses.	The global IP range size must be equal to local IP range size.
The private address configuration overlaps with existing private address configuration.	The local address overlaps with existing configuration.
Please configure both or neither of the private and public ports.	Global port number and local port number must be configured at the same time or not.
Please specify either public IP addresses or an interface connected to the external network.	Nat server could specify global address or an interface as parameter, but only one of them can be configured.
Port numbers can only be configured for TCP or UDP.	If the protocol is not TCP or UDP, NAT Server is configured without port information (include global port and local port).
Please specify either an internal server group or private IP addresses.	Nat server could specify server group or local address as parameter, but only one of them can be configured.
Public addresses and public ports can't both be consecutive.	The continuous global IP and continuous global port could not be configured at the same time.
Private addresses and private ports can't both be consecutive.	The continuous local IP and continuous local port could not be configured at the same time.
Internal server group must be specified with public ports, rather than private ports.	Local server group must be specified with global ports, rather than private ports.
The public address and port configuration conflicts with the private address and port configuration.	Global address and ports cannot overlap with local address and ports.
End address must be configured together with start address.	If end address has been configured, start address cannot be empty.
End port must be configured together with start port.	If end ports have been configured, start ports cannot be empty.

NAT/InboundStaticMappings

Message	Explanation
End public address can't be smaller than start public address.	Global end address could not less than global start address.
Number of addresses in the public IP address range exceeded the limit.	Difference between global end address and global start address is greater than 255.
Invalid end public address. The end public address can't be greater than 255.	Global end address and start address must be at the same network segment(mask less than 24).

Public IP addresses are already used by another inbound static NAT mapping.	The global address overlaps with existing NAT inbound configuration.
Private IP addresses are already used by another inbound static NAT mapping.	The local address overlaps with existing NAT inbound configuration.
This device does not support inbound static NAT rules.	This device doesn't support NAT static inbound.

NAT/ OutboundStaticMappings

Message	Explanation
End private address can't be smaller than start private address.	Local end address could not less than local start address.
Number of addresses in the private address range exceeded the limit.	Difference between local end address and local start address is greater than 255.
Invalid end private address. The end private address can't be greater than 255.	Local end address and start address must be at the same network segment(mask less than 24).
Public IP addresses are already used by another outbound static NAT mapping.	The global address overlaps with existing NAT outbound configuration.
Private IP addresses are already used by another outbound static NAT mapping.	The local address overlaps with existing NAT outbound configuration.
An ACL is required for reverse address translation.	An ACL is required for reversible configured as true.

NAT/AddrGroupMembers

Message	Explanation
End address can't be smaller than start address.	End address could not less than start address.
Number of addresses in the IP address range exceeded the limit.	Difference between end address and start address is greater than 255.
The address range overlaps with an existing address range in the same address group.	The address overlaps with existing address at the same address group.
The address range overlaps with an existing address range in another address group.	The address overlaps with existing address at another address group.

NAT/AddrGroups

Message	Explanation
End port number can't be smaller than start port number.	End port number can't be smaller than start port number.
Port block size can't be greater than number of ports in the port range.	Port block size can't be greater than port range.
The address range overlaps with an existing address range in the same address group.	The address overlaps with existing address at the same address group.
The address range overlaps with an existing	The address overlaps with existing address at another address

address range in another address group.	group.
-----------------------------------------	--------

NAT/ PortBlockGroupLocalMembers

Message	Explanation
End address can't be smaller than start address.	End address could not less than start address.
The private address range overlaps with an existing private address range in the same address group.	The local address overlaps with existing local address.

NAT/PortBlockGroupGlobalMembers

Message	Explanation
End address can't be smaller than start address.	End address could not less than start address.
The public address range overlaps with an existing public address range in the same address group.	The global address overlaps with existing local address.
Maximum number of addresses in the public IP address range already reached.	Difference between end address and start address is greater than 255.

NAT/HotBackup

Message	Explanation
This device doesn't support nat portblock sync switch.	Not allow to change nat portblock sync switch.

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NBAR

NBAR/SignatureAutoUpgradeNow

This table contains the information of APR signatures auto upgrading at once.

XML structure

```
<NBAR>
  <SignatureAutoUpgradeNow>
    <AutoUpgradeNow></AutoUpgradeNow>
  </SignatureAutoUpgradeNow>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
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	Update APR signature database immediately	N/A	N/A	This column must be empty.

NBAR/SignatureManualUpgrading

This table contains the information of APR signatures manual upgrade.

XML structure

```
<NBAR>
  <SignatureManualUpgrading>
    <URL></URL>
  </SignatureManualUpgrading>
</NBAR>
```


Table description

Item	Description
Feature name	NBAR
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 of 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 characters.	URL

NBAR/SignatureRollback

This table contains the information of APR signatures rollback.

XML structure

```
<NBAR>
  <SignatureRollback>
    <Rollback></Rollback>
  </SignatureRollback>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
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 APR signature database	N/A	N/A	Boolean: <ul style="list-style-type: none">• true: rollback last version• false: rollback original version

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NBAR

NBAR/SignatureAutoUpgrading

This table contains the information of APR signatures auto upgrade.

XML structure

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

Table description

Item	Description
Feature name	NBAR
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: <ul style="list-style-type: none">• true• false	Default is false
StartTime	The time that the system auto upgrading	N/A	Time.	Default is 02:00:00, HH:MM:SS
Type	Type of the system auto upgrading	N/A	Enumeration: <ul style="list-style-type: none">• 0—Week• 1—periodic	Default is 1
Day	Days	N/A	Unsigned integer: 0-6.	When Type is 0 , the value range is 0 to 6. Otherwise, the value is invalid

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NBAR

NBAR/SignatureFileInfos

This table contains the signature file information.

XML structure

```
<NBAR>
  <SignatureFileInfos>
    <Version></Version>
    <FileName></FileName>
    <PublishedTime></PublishedTime>
    <Updates></Updates>
  </SignatureFileInfos>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
Table name	SignatureFileInfos
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Version	Version of the signature file	N/A	Enumeration: <ul style="list-style-type: none">• 1—current• 2—last• 3—factory	N/A
FileName	File name of the signature file	N/A	String: case-insensitive Length: 1 to 31 characters.	N/A
PublishedTime	The time when the signature is published	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS	Consider time-zone
Updates	Information of the signature file	N/A	String: case-insensitive Length: 1 to 255	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	

NBAR/SignatureAutoUpgrading

This table contains the information of APR signatures auto-upgrade settings.

XML structure

```

<NBAR>
  <SignatureAutoUpgrading>
    <Enabled></Enabled>
    <StartTime></StartTime>
    <Type></Type>
    <Day></Day>
  </SignatureAutoUpgrading>
</NBAR>

```

Table description

Item	Description
Feature name	NBAR
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: <ul style="list-style-type: none"> true false 	Default is false
StartTime	The time that the system auto upgrading	N/A	Time.	Default is 02:00:00, HH:MM:SS
Type	Type of the system auto upgrading	N/A	Enumeration: <ul style="list-style-type: none"> 0—Week 1—periodic 	Default is 1
Day	Days	N/A	Unsigned integer: 0-6.	When Type is 0 , the value range is 0 to 6. Otherwise, the value is invalid

NBAR/UpdatePercentage

This table contains the percentage of update.

XML structure

```
<NBAR>
  <UpdatePercentage>
    <Percentage></Percentage>
    <ErrorCode></ErrorCode>
  </UpdatePercentage>
</NBAR>
```

Table description

Item	Description
Feature name	NBAR
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	When the value range is 0 to 100,it means in upgrading, Otherwise, means error
ErrorCode	the errorcode of update.	N/A	Enumeration: <ul style="list-style-type: none">• 0—Success• 1—License check error• 2—SigFile check error• 3—Server connect error	N/A

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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: <ul style="list-style-type: none">• 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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XML structure	9
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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

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 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.	Some versions support VRF name. For relevant information, see the XSD document of your product. 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>

```


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.
LearnMaximum	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true • false (default) 	N/A
HopLimitUnspecified	Whether specify unlimited hops in RA messages or not	N/A	Boolean: <ul style="list-style-type: none"> • true • false (default) 	N/A
ManagedAddressFlag	Whether set the managed address flag to 1 or not	N/A	Boolean: <ul style="list-style-type: none"> • true • false (default) 	N/A
OtherFlag	Whether set the other flag to 1 or not	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
Ipv6Prefix	Ipv6Prefix	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">truefalse (default)	N/A
LocalProxyEnable	Whether the function of local ND proxy is enabled	N/A	Boolean: <ul style="list-style-type: none">truefalse (default)	N/A

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XML structure	8
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XML structure	9
Table description	9
Columns	10

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: <ul style="list-style-type: none"> 1—Invalid static. 2—Static. 3—Dynamic. 4—OpenFlow. 5—Rule. 	N/A
State	State of a neighbor	N/A	Enumeration: <ul style="list-style-type: none"> 1—INCMP. 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true • false 	N/A
HopLimitUnspecified	Whether specify unlimited hops in RA messages or not	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	N/A
ManagedAddressFlag	Whether set the managed address flag to 1 or not	N/A	Boolean: <ul style="list-style-type: none"> • true. • False 	N/A
OtherFlag	Whether set the other flag to 1 or not	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">truefalse	N/A
LocalProxyEnable	Whether the function of local ND proxy is enabled	N/A	Boolean: <ul style="list-style-type: none">truefalse.	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: <ul style="list-style-type: none"> true false

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 - ND/NDRAPrefix 2
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ND

ND/NDTable

Message	Explanation
The configuration doesn't meet the requirements.	Invalid configuration, please modify configuration under guidance.
Invalid IPv6 address.	Invalid IPv6 address configuration
The S-channel subinterface is not supported.	The S-channel subinterface is not supported.
The VLAN doesn't exist.	The VLAN does not exist when set the configuration.
The VLAN interface doesn't exist.	The VLAN interface does not exist when set the configuration.
The VRF doesn't exist.	The VRF does not exist when set the configuration.
The port doesn't belong to the VLAN, or the VLAN is not permitted on the port.	The port doesn't belong to the VLAN, or the VLAN is not permitted on the port.
The interface is not associated with the specified VRF.	The interface is not associated with the specified VRF.
The interface is associated with a VRF.	The interface is associated with a VRF.
Maximum number of ND entries already reached.	Maximum number of ND entries already reached ,please check configuration or specifications
Maximum number of static ND entries already reached.	Maximum number of static ND entries already reached ,please check configuration or specifications
The static ND entry already exists.	The static ND configuration has existed when creating a new configuration.
The VLAN interface number doesn't match the VLAN ID.	The VLAN interface number doesn't match the VLAN ID.

ND/NDLearnLimit

Message	Explanation
The value is out of range.	The value is out of range ,please check configuration or specifications

ND/NDRA

Message	Explanation
The configuration doesn't meet the requirements.	The configuration doesn't meet the requirements, please modify configuration under guidance.
The maximum interval for advertising RA messages can't be longer than the router lifetime.	The maximum interval for advertising RA messages can't be longer than the router lifetime, please modify configuration under guidance.
The router lifetime can't be less than the maximum interval for advertising RA messages.	The router lifetime can't be less than the maximum interval for advertising RA messages, please modify configuration under guidance.
The minimum interval for advertising RA messages must be in the range of three seconds to three quarters of the maximum interval.	The minimum interval for advertising RA messages must be in the range of three seconds to three quarters of the maximum interval, please modify configuration under guidance.

ND/NDRAPrefix

Message	Explanation
The configuration doesn't meet the requirements.	The configuration doesn't meet the requirements, please modify configuration under guidance.
Invalid IPv6 prefix.	Invalid IPv6 prefix.
Maximum number of IPv6 prefixes for one interface (10) already reached.	Maximum number of IPv6 prefixes for one interface (10) already reached, please check configuration or specifications.
The prefix is already used by another interface.	The prefix is already used by another interface. Please check configuration.
The preferred lifetime can't be longer than the valid lifetime.	The preferred lifetime can't be longer than the valid lifetime, please modify configuration under guidance.

ND/NDClearTable

Message	Explanation
Invalid IPv6 address.	Invalid IPv6 address.

Contents

NETCONF1

 Common Error Message 1

NETCONF

Common Error Message

Message	Explanation
Invalid value.	Invalid value.
Can't issue the configuration because of configuration conflict.	Can't issue the configuration because of configuration conflict.
Configuration already exists.	Configuration already exists.
Configuration target does not exist.	Configuration target does not exist.
Configuration does not exist.	Configuration does not exist, delete operation failed.
The configuration not supported on the specified target.	The configuration not supported on the specified target.
The session does not have the privilege to process the request.	The session does not have the privilege to process the request.
Resources are insufficient for processing the request.	Resources are insufficient for processing the request.
The system does not support this operation.	The system does not support this operation.
Operation failed.	Operation failed.
Expecting element '%s': '%s' under element '%s'.	Expecting element ' <i>path</i> '.
The element '%s' should have an attribute '%s'.	The element ' <i>a</i> ' should have an attribute ' <i>b</i> '.
The value of element '%s' is invalid. %s	The value of element ' <i>a</i> ' is invalid. <i>Reason</i>
The value of attribute '%s' for element '%s' is invalid. %s	The value of attribute ' <i>a</i> ' for element ' <i>b</i> ' is invalid. <i>Reason</i>
The number of occurrences of element '%s/%s' is invalid.	The number of occurrences of element '%s/%s' is invalid.
Unexpected element '%s': '%s' under element '%s'.	Unexpected element '%s'.
Unexpected attribute '%s': '%s' of element '%s'.	Unexpected attribute '%s' of element '%s'.
The child elements of '%s' are invalid.	The child elements of '%s' are invalid.
Element '%s' can not have a textual child element.	Element '%s' can not have a textual child element.
Element '%s' can not have a child element.	Element '%s' can not have a child element.
%%. %lus is an invalid value of %s type value.	<i>value</i> is an invalid value of <i>type</i> type value.
%s cannot be empty.	%s cannot be empty.
The value does not match the regular expression.	The value does not match the regular expression.
The value does not match the enumeration.	The value does not match the enumeration.
The length must be equal to %s.	The length must be equal to %s.
The total digit length must be equal to %s.	The total digit length must be equal to %s.
The length must be less than or equal to %s.	The length must be less than or equal to maxLength.
The length must be greater than or equal to %s.	The length must be greater than or equal to minLength.

The value must be less than %s.	The value must be less than maxExclusive.
The value must be greater than %s.	The value must be greater than minExclusive.
The value must be less than or equal to %s.	The value must be less than or equal to maxInclusive.
The value must be greater than or equal to %s.	The value must be greater than or equal to minInclusive.

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 - NETSHARE/FreezeIP1
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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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 - XML structure.....3
 - Table description.....3
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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: <ul style="list-style-type: none"> true false 	The default value is true.
IPIDtrailsw	Enabling status of IPID Trail	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">1—SourceZones.2—DestZones.3—SourceAddressSetsIPv4.4—SourceAddressSetsIPv6.5—DestAddressSetsIPv4.6—DestAddressSetsIPv6.7—Users.

Column name	Column description	Column type	Data type and restrictions
			<ul style="list-style-type: none"> 8—UserGroups.
OptionJsonValue	Match criteria content	Index	String, case-insensitive. Length: 1 to 65535.

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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: <ul style="list-style-type: none"> true false
IPIDtrailsw	Enabling status of IPID Trail	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
Policyname	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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NETSTREAM4

NETSTREAM4/ClearNS4Statistics

This table is used to clear IPv4 NETSTREAM statistics.

XML structure

```
<NETSTREAM4>
  <ClearNS4Statistics>
    <Clear></Clear>
  </ClearNS4Statistics>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	ClearNS4Statistics
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Clear	Clear IP NETStream statistics	N/A	This column must be empty.	This setting ages out all flows in the cache and export NetStream data.

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NETSTREAM4

NETSTREAM4/NS4Enable

This table contains information about enabling NetStream on an interface.

XML structure

```
<NETSTREAM4>
  <NS4Enable>
    <InterfaceEnable>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </InterfaceEnable>
  </NS4Enable>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Enable
Table type	Multi-instance table
Row name	InterfaceEnable
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> .
Enable	Traffic direction	N/A	Enumeration: <ul style="list-style-type: none">• 0—Disable• 1—Enables NetStream for incoming traffic.• 2—Enables NetStream	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			for outgoing traffic. <ul style="list-style-type: none"> 3—Enables NetStream for incoming and outgoing traffic. 	

NETSTREAM4/NS4Sampler

This table contains information about enabling NetStream sampling on an interface.

XML structure

```

<NETSTREAM4>
  <NS4Sampler>
    <InterfaceSampler>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <SamplerName></SamplerName>
    </InterfaceSampler>
  </NS4Sampler>
</NETSTREAM4>

```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Sampler
Table type	Multi-instance table
Row name	InterfaceSampler
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> .

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Traffic direction	Index	Enumeration: <ul style="list-style-type: none"> 1—Incoming traffic. 2—Outgoing traffic. 	N/A
SamplerName	Sampler name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

NETSTREAM4/NS4Filter

This table contains information about enabling NetStream filtering an interface.

XML structure

```

<NETSTREAM4>
  <NS4Filter>
    <InterfaceFilter>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <AclNumber></AclNumber>
    </InterfaceFilter>
  </NS4Filter>
</NETSTREAM4>

```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Filter
Table type	Multi-instance table
Row name	InterfaceFilter
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,

Column name	Column description	Column type	Data type and restrictions	Remarks
				see "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Direction	Traffic direction	Index	Enumeration: <ul style="list-style-type: none"> 1—Incoming traffic. 2—Outgoing traffic. 	N/A
AcINumber	IPv4 ACL number	N/A	Unsigned integer. For an IPv4 basic ACL, the value range is 2000 to 2999. For an IPv4 advanced ACL, the value range is 3000 to 3999.	NetStream filtering uses an ACL to identify target packets. If you want to collect data for specific flows, use the ACL permit statements to identify the flows. NetStream collects data only for these flows. If you do not want to collect data for specific flows, use the ACL deny statements to identify the flows. NetStream does not collect data for these flows.

NETSTREAM4/NS4V9RefreshTime

This table contains information about the refresh rate of time for the NetStream version 9 template.

XML structure

```
<NETSTREAM4>
  <NS4V9RefreshTime>
    <Time></Time>
  </NS4V9RefreshTime>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4V9RefreshTime
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
Time	Interval at which the template is sent	N/A	Unsigned integer. The value range is 1 to 3600 minutes. The default time-based refresh interval is 30 minutes.

NETSTREAM4/NS4V9RefreshPacket

This table contains information about the refresh rate of packet for the NetStream version 9 template.

XML structure

```
<NETSTREAM4>
  <NS4V9RefreshPacket>
    <Packet></Packet>
  </NS4V9RefreshPacket>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4V9RefreshPacket
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
Packet	Number of packets that are sent before the template is sent	N/A	Unsigned integer. The value range is 1 to 600. The default packet count-based refresh rate is 20 packets.

NETSTREAM4/NS4Host

This table contains the information about the destination host to which the IPv4 NetStream exports.

XML structure

```
<NETSTREAM4>
  <NS4Host>
    <Host>
      <VrfIndex></VrfIndex>
      <IP></IP>
      <UDPPort></UDPPort>
    </Host>
  </NS4Host>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Host
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
VrfIndex	Index of the VRF	Index	Unsigned integer. Value range: 0 to 65535	When vrfIndex is 0, it indicates the host is on public network. This supports name index.
IP	IP address of the host	Index	String, dotted decimal notation.	N/A
UDPPort	UDP port of the host	N/A	Unsigned integer. Value range: 0 to 65535. Default: 0.	N/A

NETSTREAM4/NS4Source

This table contains the information about the source interface for NetStream data to be sent to NetStream servers.

XML structure

```
<NETSTREAM4>
  <NS4Source>
    <IfIndex></IfIndex>
  </NS4Source>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Source
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
IfIndex	Source interface index	N/A	Unsigned integer.	This supports name index.

NETSTREAM4/NS4ActiveTime

This table contains the information about the aging time of active flows.

XML structure

```
<NETSTREAM4>
  <NS4ActiveTime>
    <ActiveTime></ActiveTime>
  </NS4ActiveTime>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4ActiveTime
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions
ActiveTime	Aging time of active flows	N/A	Unsigned integer. Value range: 1 to 60 minutes. Default: 30 minutes.

NETSTREAM4/NS4InActiveTime

This table contains the information about the aging time of inactive flows.

XML structure

```

<NETSTREAM4>
  <NS4InActiveTime>
    <InActiveTime></InActiveTime>
  </NS4InActiveTime>
</NETSTREAM4>

```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4InActiveTime
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
InActiveTime	Aging time of inactive flows	N/A	Unsigned integer. Value range: 10 to 600 seconds. Default: 30 seconds.

NETSTREAM4/NS4MaxEntry

This table contains the information about the upper limit on IPv4 NetStream entries.

XML structure

```
<NETSTREAM4>
  <NS4MaxEntry>
    <MaxEntry></MaxEntry>
    <Action></Action>
  </NS4MaxEntry>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4MaxEntry
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
MaxEntry	Maximum number of IP NetStream entries can be cached	N/A	Unsigned integer. Default: User-defined value	N/A.
Action	Processing method when the upper limit is reached	N/A	Boolean: <ul style="list-style-type: none">true—Ages out the oldest entries when the upper limit is reached.false (default)—Disables creation of a new entry when the upper limit is reached.	N/A

NETSTREAM4/NS4Version

This table contains information about the version that IPv4 NetStream uses to export data.

XML structure

```
<NETSTREAM4>
  <NS4Version>
    <Version></Version>
    <As></As>
    <Nexthop></Nexthop>
  </NS4Version>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4MaxEntry
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
Version	Version format	N/A	Enumeration: <ul style="list-style-type: none">59 (default)10
As	Autonomous system	N/A	Enumeration: <ul style="list-style-type: none">0—peer-as (default)1—origin-as
Nexthop	BGP nexthop	N/A	Boolean: <ul style="list-style-type: none">truefalse (default)

NETSTREAM4/NS4Rate

This table contains information about the export rate.

XML structure

```
<NETSTREAM4>
  <NS4Rate>
    <Rate></Rate>
  </NS4Rate>
```


</NETSTREAM4>

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NETSTREAM4Rate
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
Rate	Export rate	N/A	Unsigned integer. Value range: 0 to 1000. Default: 0.

NETSTREAM4/NS4Aging

This table contains information about IPv4 NetStream periodical aging and TCP FIN- and RST-triggered aging.

XML structure

```
<NETSTREAM4>
  <NS4Aging>
    <AgingEnable></AgingEnable>
  </NS4Aging>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Aging
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
AgingEnable	Enabling status of periodical aging, TCP FIN and RST-triggered aging.	N/A	Boolean: <ul style="list-style-type: none">true (default).false.

NETSTREAM4/NS4IPSECRawPacket

This table contains information about NetStream for outgoing packets before/after IPsec encapsulation.

XML structure

```
<NETSTREAM4>
  <NS4IPSECRawPacket>
    <IPSECRawPacket>
      <IfIndex></IfIndex>
      <RawPacketEnable></RawPacketEnable>
    </IPSECRawPacket>
  </NS4IPSECRawPacket>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4IPSECRawPacket
Table type	Single-instance table
Row name	IPSECRawPacket
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

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
RawPacketEnable	Enabling status of NetStream for outgoing packets before IPsec encapsulation	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). 	By default, NetStream is enabled for outgoing IPsec encapsulated packets.

NETSTREAM4/NS4MPLSCollection

This table contains information about MPLS-aware IPv4 NetStream.

XML structure

```

<NETSTREAM4>
  <NS4MPLSCollection>
    <LabelPosition1></LabelPosition1>
    <LabelPosition2></LabelPosition2>
    <LabelPosition3></LabelPosition3>
    <NoIPFieldsEnable></NoIPFieldsEnable>
  </NS4MPLSCollection>
</NETSTREAM4>

```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4MPLSCollection
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
LabelPositions1	Position of the first label in the label stack	N/A	Enumeration: <ul style="list-style-type: none"> 0 1 2 3 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> • 4 • 5 • 6 	
LabelPositions2	Position of the second label in the label stack	N/A	Enumeration: <ul style="list-style-type: none"> • 0 • 1 • 2 • 3 • 4 • 5 • 6 	N/A
LabelPositions3	Position of the third label in the label stack	N/A	Enumeration: <ul style="list-style-type: none"> • 0. • 1 • 2 • 3 • 4 • 5 • 6 	N/A
NoIPFieldsEnable	Specifies not to count IP fields.	N/A	Boolean: <ul style="list-style-type: none"> • true. • false (default). 	N/A

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NETSTREAM4

NETSTREAM4/NS4Enable

This table contains information about enabling NetStream on an interface.

XML structure

```
<NETSTREAM4>
  <NS4Enable>
    <InterfaceEnable>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </InterfaceEnable>
  </NS4Enable>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Enable
Table type	Multi-instance table
Row name	InterfaceEnable
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> .
Enable	Traffic direction	N/A	Enumeration: <ul style="list-style-type: none">• 0—Disable• 1—Enables NetStream for incoming traffic.• 2—Enables NetStream for outgoing traffic.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 3—Enables NetStream for incoming and outgoing traffic. 	

NETSTREAM4/NS4Sampler

This table contains information about enabling NetStream sampling on an interface.

XML structure

```

<NETSTREAM4>
  <NS4Sampler>
    <InterfaceSampler>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <SamplerName></SamplerName>
    </InterfaceSampler>
  </NS4Sampler>
</NETSTREAM4>

```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Sampler
Table type	Multi-instance table
Row name	InterfaceSampler
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> .
Direction	Traffic direction	Index	Enumeration: <ul style="list-style-type: none"> 1—Incoming traffic. 2—Outgoing traffic. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SamplerName	Sampler name	N/A	String, case-insensitive. Length: 1 to 31 characters.	N/A

NETSTREAM4/NS4Filter

This table contains information about enabling NetStream filtering an interface.

XML structure

```

<NETSTREAM4>
  <NS4Filter>
    <InterfaceFilter>
      <IfIndex></IfIndex>
      <Direction></Direction>
      <AclNumber></AclNumber>
    </InterfaceFilter>
  </NS4Filter>
</NETSTREAM4>

```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Filter
Table type	Multi-instance table
Row name	InterfaceFilter
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.
Direction	Traffic direction	Index	Enumeration: <ul style="list-style-type: none"> 1—Incoming traffic. 2—Outgoing traffic. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AclNumber	IPv4 ACL number.	N/A	Unsigned integer. For an IPv4 basic ACL, the value range is 2000 to 2999. For an IPv4 advanced ACL, the value range is 3000 to 3999.	NetStream filtering uses an ACL to identify target packets. If you want to collect data for specific flows, use the ACL permit statements to identify the flows. NetStream collects data only for these flows. If you do not want to collect data for specific flows, use the ACL deny statements to identify the flows. NetStream does not collect data for these flows.

NETSTREAM4/NS4V9RefreshTime

This table contains information about the refresh rate of time for the NetStream version 9 template.

XML structure

```

<NETSTREAM4>
  <NS4V9RefreshTime>
    <Time></Time>
  </NS4V9RefreshTime>
</NETSTREAM4>

```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4V9RefreshTime
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Time	Interval at which the template is sent	N/A	Unsigned integer. Value range: 1 to 3600 minutes.

NETSTREAM4/NS4V9RefreshPacket

This table contains information about the refresh rate of packet for the NetStream version 9 template.

XML structure

```
<NETSTREAM4>
  <NS4V9RefreshPacket>
    <Packet></Packet>
  </NS4V9RefreshPacket>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4V9RefreshPacket
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Packet	Number of packets that are sent before the template is sent	N/A	Unsigned integer. Value range: 1 to 600.

NETSTREAM4/NS4Host

This table contains the information about the destination host to which the IPv4 NetStream exports.

XML structure

```
<NETSTREAM4>
  <NS4Host>
    <Host>
      <VrfIndex></VrfIndex>
      <IP></IP>
      <UDPPort></UDPPort>
    </Host>
  </NS4Host>
</NETSTREAM4>
```


Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Host
Table type	Multi-instance table
Row name	Host
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	Index	Unsigned integer. Value range: 0 to 65535	When vrfIndex is 0, it indicates the host is on public network. This supports name index.
IP	IP address of the host	Index	String, dotted decimal notation.	N/A
UDPPort	UDP port of the host	N/A	Unsigned integer. Value range: 0 to 65535	N/A

NETSTREAM4/NS4Source

This table contains the information about the source interface for NetStream data to be sent to NetStream servers.

XML structure

```
<NETSTREAM4>
  <NS4Source>
    <IfIndex></IfIndex>
  </NS4Source>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Source
Table type	Single-instance table
Row name	None

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Source interface index	N/A	Unsigned integer	This supports name index.

NETSTREAM4/NS4ActiveTime

This table contains the information about the aging time of active flows.

XML structure

```

<NETSTREAM4>
  <NS4ActiveTime>
    <ActiveTime></ActiveTime>
  </NS4ActiveTime>
</NETSTREAM4>

```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4ActiveTime
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ActiveTime	The active timeout	N/A	Unsigned integer. Value range: 1 to 60 minutes. Default: 30 minutes.

NETSTREAM4/NS4InActiveTime

This table contains the information about the aging time of inactive flows.

XML structure

```
<NETSTREAM4>
  <NS4InActiveTime>
    <InActiveTime></InActiveTime>
  </NS4InActiveTime>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4InActiveTime
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
InActiveTime	The Inactive timeout	N/A	Unsigned integer. Value range: 10 to 600 seconds. Default: 30 seconds.

NETSTREAM4/NS4MaxEntry

This table contains the information about the upper limit on IPv4 NetStream entries.

XML structure

```
<NETSTREAM4>
  <NS4MaxEntry>
    <MaxEntry></MaxEntry>
    <Action></Action>
  </NS4MaxEntry>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4MaxEntry
Table type	Single-instance table

Item	Description
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MaxEntry	The MaxEntries of ip netstream	N/A	Unsigned integer	N/A.
Action	Processing method when the upper limit is reached	N/A	Boolean: <ul style="list-style-type: none"> true—Ages out the oldest entries when the upper limit is reached. false (default)—Disables creation of a new entry when the upper limit is reached. 	N/A

NETSTREAM4/NS4Version

This table contains information about the version that IPv4 NetStream uses to export data.

XML structure

```

<NETSTREAM4>
  <NS4Version>
    <Version></Version>
    <As></As>
    <NextHop></NextHop>
  </NS4Version>
</NETSTREAM4>

```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4MaxEntry
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Version	The ip netstream version	N/A	Enumeration: <ul style="list-style-type: none">• 5• 9• 10
As	The autonomous system	N/A	Enumeration: <ul style="list-style-type: none">• 0—peer-as• 1—origin-as
Nexthop	bgp-nexthop	N/A	Boolean: <ul style="list-style-type: none">• true• false

NETSTREAM4/NS4Rate

This table contains information about the export rate.

XML structure

```
<NETSTREAM4>
  <NS4Rate>
    <Rate></Rate>
  </NS4Rate>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NETSTREAM4Rate
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Rate	Export rate	N/A	Unsigned integer. Value range: 0 to 1000

NETSTREAM4/NS4Aging

This table contains information about IPv4 NetStream periodical aging and TCP FIN- and RST-triggered aging.

XML structure

```
<NETSTREAM4>
  <NS4Aging>
    <AgingEnable></AgingEnable>
  </NS4Aging>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Aging
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
AgingEnable	Enabling status of periodical aging, TCP FIN and RST-triggered aging.	N/A	Boolean: <ul style="list-style-type: none">true.false.

NETSTREAM4/NS4IPSECRawPacket

This table contains information about NetStream for outgoing packets before/after IPsec encapsulation.

XML structure

```
<NETSTREAM4>
  <NS4IPSECRawPacket>
    <IPSECRawPacket>
      <IfIndex></IfIndex>
      <RawPacketEnable></RawPacketEnable>
    </IPSECRawPacket>
  </NS4IPSECRawPacket>
```


</NETSTREAM4>

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4IPSECRawPacket
Table type	Single-instance table
Row name	IPSECRawPacket
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> .
RawPacketEnable	Enabling status of NetStream for outgoing packets before IPsec encapsulation	N/A	Boolean: <ul style="list-style-type: none">true—Enabled.false—Disabled (default).	By default, NetStream is enabled for outgoing IPsec encapsulated packets.

NETSTREAM4/NS4MPLSCollection

This table contains information about MPLS-aware IPv4 NetStream.

XML structure

```
<NETSTREAM4>
  <NS4MPLSCollection>
    <LabelPosition1></LabelPosition1>
    <LabelPosition2></LabelPosition2>
    <LabelPosition3></LabelPosition3>
    <NoIPFieldsEnable></NoIPFieldsEnable>
  </NS4MPLSCollection>
</NETSTREAM4>
```


Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4MPLSCollection
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LabelPositions1	Position of the first label in the label stack	N/A	Enumeration: <ul style="list-style-type: none">• 0.• 1• 2• 3• 4• 5• 6	N/A
LabelPositions2	Position of the second label in the label stack	N/A	Enumeration: <ul style="list-style-type: none">• 0.• 1• 2.• 3• 4• 5• 6	N/A
LabelPositions3	position of the third label in the label stack.	N/A	Enumeration: <ul style="list-style-type: none">• 0.• 1• 2• 3• 4• 5• 6	N/A
NoIPFieldsEnable	Specifies not to count IP fields.	N/A	Boolean: <ul style="list-style-type: none">• true.• false.	N/A

NETSTREAM4/NS4ExportInfo

This table contains information about the IPv4 NetStream data Export.

XML structure

```
<NETSTREAM4>
  <NS4ExportInfo>
    <ExportInfo>
      <ExportType></ExportType>
      <Ipv4Address></Ipv4Address>
      <VrfIndex></VrfIndex>
      <UDPPort></UDPPort>
      <IfIndex></IfIndex>
      <V5ExportNum></V5ExportNum>
      <V5UDPDatagramsNum></V5UDPDatagramsNum>
      <V5UDPDatagramsFailed></V5UDPDatagramsFailed>
      <V8ExportNum></V8ExportNum>
      <V8UDPDatagramsNum></V8UDPDatagramsNum>
      <V8UDPDatagramsFailed></V8UDPDatagramsFailed>
      <V9ExportNum></V9ExportNum>
      <V9UDPDatagramsNum></V9UDPDatagramsNum>
      <V9UDPDatagramsFailed></V9UDPDatagramsFailed>
      <V10ExportNum></V10ExportNum>
      <V10UDPDatagramsNum></V10UDPDatagramsNum>
      <V10UDPDatagramsFailed></V10UDPDatagramsFailed>
    </ExportInfo>
  </NS4ExportInfo>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4MPLSCollection
Table type	Multi-instance table
Row name	ExportInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ExportType	Export Type	index	Unsigned integer: <ul style="list-style-type: none">1-17	1-13:aggregation 14:IP 15:MPLS 16:L2 17:IPL2
Ipv4Address	IPv4 address	index	String, dotted decimal notation.	HOST ip address

Column name	Column description	Column type	Data type and restrictions	Remarks
VrfIndex	Index of the VRF	N/A	Unsigned integer.	N/A
UDPPort	UDP Port	N/A	Unsigned integer.	N/A
IfIndex	Interface Index	N/A	Unsigned integer.	N/A
V5ExportNum	Version 5 exported flows number.	N/A	Unsigned integer.	N/A
V5UDPDatagramsNum	Version 5 exported UDP datagram number.	N/A	Unsigned integer.	N/A
V5UDPDatagramsFailed	Version 5 exported UDP datagram failed number.	N/A	Unsigned integer.	N/A
V8ExportNum	Version 8 exported flows number.	N/A	Unsigned integer.	N/A
V8UDPDatagramsNum	Version 8 exported flows number.	N/A	Unsigned integer.	N/A
V8UDPDatagramsFailed	Version 8 exported UDP datagram failed number.	N/A	Unsigned integer.	N/A
V9ExportNum	Version 9 exported flows number.	N/A	Unsigned integer.	N/A
V9UDPDatagramsNum	Version 9 exported UDP datagram number.	N/A	Unsigned integer.	N/A
V9UDPDatagramsFailed	Version 9 exported UDP datagram failed number.	N/A	Unsigned integer.	N/A
V10ExportNum	Version 10 exported flows number.	N/A	Unsigned integer.	Some version may not support.
V10UDPDatagramsNum	Version 10 exported UDP datagram number.	N/A	Unsigned integer.	Some version may not support.
V10UDPDatagramsFailed	Version 10 exported UDP datagram failed number.	N/A	Unsigned integer.	Some version may not support.

NETSTREAM4/NS4Specification

This table contains information about IPv4 NetStream specification.

XML structure

```
<NETSTREAM4>
  <NS4Specification>
    <MaxEntryAction></MaxEntryAction>
    <MaxEntryNum></MaxEntryNum>
    <MinEntryNum></MinEntryNum>
    <ActiveMaxTimeOut></ActiveMaxTimeOut>
    <InactiveMaxTimeOut></InactiveMaxTimeOut>
    <NoSupportMPLS></NoSupportMPLS>
    <SupportGlobal></SupportGlobal>
    <NSNoFilter></NSNoFilter>
    <NSSupportMirror></NSSupportMirror>
    <NSNoSampler></NSNoSampler>
    <NS4IfSetConfBitMap></NS4IfSetConfBitMap>
    <NSNoAging></NSNoAging>
    <NsSupportVxlan></NsSupportVxlan>
    <NsIgnoreDirect></NsIgnoreDirect>
    <NsModeRaw></NsModeRaw>
  </NS4Specification>
</NETSTREAM4>
```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4Specification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
MaxEntryAction	Whether the entry action is supported	N/A	Boolean: <ul style="list-style-type: none">true.false.
MaxEntryNum	Max entry number	N/A	Unsigned integer.
MinEntryNum	Min entry number	N/A	Unsigned integer.

Column name	Column description	Column type	Data type and restrictions
ActiveMaxTimeOut	Active Max TimeOut	N/A	Unsigned integer.
InActiveMaxTimeOut	Inactive Max TimeOut	N/A	Unsigned integer.
NoSupportMPLS	Whether the MPLS is supported	N/A	Boolean: <ul style="list-style-type: none"> true. false.
SupportGlobal	Whether enabling IPv4 NetStream globally is supported	N/A	Boolean: <ul style="list-style-type: none"> true. false.
NSNoFilter	Whether filter is supported.	N/A	Boolean: <ul style="list-style-type: none"> true. false.
NSSupportMirror	Whether the mirror is supported.	N/A	Boolean: <ul style="list-style-type: none"> true. false.
NSNoSampler	Whether the sampler is supported.	N/A	Boolean: <ul style="list-style-type: none"> true. false.
NS4IfSetConfBitMap	Whether the interface is supported.	N/A	Unsigned integer.
NSNoAging	Whether the aging is supported.	N/A	Boolean: <ul style="list-style-type: none"> true. false.
NsSupportVxlan	Whether the VXLAN is supported.	N/A	Boolean: <ul style="list-style-type: none"> true. false.
NsIgnoreDirect	Whether ignore direct.	N/A	Boolean: <ul style="list-style-type: none"> true. false.
NsModeRaw	Whether the IPsec raw is supported.	N/A	Boolean: <ul style="list-style-type: none"> true. false.

NETSTREAM4/NS4CacheInfo

This table contains information about IPv4 NetStream Cache.

XML structure

```

<NETSTREAM4>
  <NS4CacheInfo>
    <CacheInfo>
      <LipNode></LipNode>

```



```

<HashIndex></HashIndex>
<Order></Order>
<FlowType></FlowType>
<PacketNum></PacketNum>
<IfIndex></IfIndex>
<Direction></Direction>
<VxlanID></VxlanID>
<SrcAddress></SrcAddress>
<SrcPort></SrcPort>
<DstAddress></DstAddress>
<DstPort></DstPort>
<Protocol></Protocol>
<Tos></Tos>
<AppID></AppID>
<MplsTopType></MplsTopType>
<MplsTopLabelIP></MplsTopLabelIP>
<MplsTopLabelMaskLen></MplsTopLabelMaskLen>
<MplsLabel1></MplsLabel1>
<MplsLabel2></MplsLabel2>
<MplsLabel3></MplsLabel3>
</CacheInfo>
</NS4CacheInfo>
</NETSTREAM4>

```

Table description

Item	Description
Feature name	NETSTREAM4
Table name	NS4CacheInfo
Table type	Multi-instance table
Row name	CacheInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
LipNode	The LipNode index	Index	Unsigned integer.	N/A
HashIndex	The hash table index	Index	Unsigned integer Value range: 0 to 65535.	N/A
Order	Position of hash conflict link	Index	Unsigned integer.	N/A
FlowType	NetStream entry type	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 1—IP 2—MPLS 3—MIX 	
PacketNum	Total number of packets	N/A	Unsigned integer	Unsigned integer. Value range: 0 to $2^{64} - 1$.
IfIndex	Interface index	Index	Unsigned integer.	This supports name index
Direction	Direction of the packet	N/A	Enumeration: <ul style="list-style-type: none"> 0—OUT 1—IN 	N/A
VxlanID	N/A	N/A	Unsigned integer.	N/A
SrcAddress	IP address of the source	N/A	String, dotted decimal notation.	N/A
SrcPort	Port of the source.	N/A	Unsigned integer.	N/A
DstAddress	IP address of the destination	N/A	String, dotted decimal notation.	N/A
DstPort	Port of the destination.	N/A	Unsigned integer.	N/A
Protocol	Protocol type	N/A	Unsigned integer.	N/A
Tos	Service type	N/A	Unsigned integer.	N/A
AppID	Application ID	N/A	Unsigned integer.	N/A
MplsTopType	MPLS top type	N/A	Enumeration: <ul style="list-style-type: none"> 0—UNKNOWN 1—TE_MIDPT 2—ATOM 3—VPN 5—BGP 6—LDP 	N/A
MplsTopLabelIP	Label IP address	Index	String, dotted decimal notation.	N/A
MplsTopLabelMaskLen	Label ip mask length	N/A	Unsigned integer.	N/A
MplsLabel1	First mpls label	N/A	Unsigned integer.	N/A
MplsLabel2	Second MPLS label	N/A	Unsigned integer.	N/A
MplsLabel3	Third MPLS label	N/A	Unsigned integer.	N/A

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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: <ul style="list-style-type: none"> • 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. • 29—Y1564. • 30—RADIUS-ACCOUNT. 	<p>NQA templates are not available for the following types of operations:</p> <ul style="list-style-type: none"> • DLSW. • DHCP. • UDP-jitter. • Voice. • Path-jitter. • UDP-tracert. • Throughput. • Latency. • Frame-loss. • ICMP-jitter. • Y1564. <p>You must specify an operation type when you create a template.</p> <p>You cannot specify an operation type when you remove or delete a template.</p> <p>The operation type of an NQA template cannot be modified.</p>
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	N/A	Unsigned integer. Default: 3000.	The value range for the probe

Column name	Column description	Column type	Data type and restrictions	Remarks
	milliseconds.			<p>timeout time varies by the Type column.</p> <ul style="list-style-type: none"> FTP/HTTP/HTTPS/SNMP-DCA/WAP: 10 to 86400000. ICMP-echo/UDP-echo/TCP/SNMP/DNS/ARP/IMAP/POP3/RADIUS/RTSP/SIP/SMTP/SSL/TCP half-open/RADIUS-ACCOUNT: 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.	<p>This column cannot be configured with the DstIP or DstPort column simultaneously, except for the WAP operation.</p> <p>Only the FTP, HTTP, HTTPS, RTSP, and WAP operations support this column.</p> <p>By default, no URL is specified for the destination server.</p> <p>Valid URL formats vary by the Type column:</p> <ul style="list-style-type: none"> For FTP operations, enter the URL in one of the following formats: <ul style="list-style-type: none"> ftp://host/filename ftp://host:port/filename When performing the get operation, the <i>filename</i> argument is required. 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 HTTP operations, enter the URL in one of the following formats: <ul style="list-style-type: none"> http://host/resource http://host:port/resource For HTTPS operations, enter the URL in one of the following formats: <ul style="list-style-type: none"> https://host/resource

Column name	Column description	Column type	Data type and restrictions	Remarks
				<ul style="list-style-type: none"> ○ <code>https://host:port/resource</code> • For RTSP operations, enter the URL in one of the following formats: <ul style="list-style-type: none"> ○ <code>rtsp://host/resource</code> ○ <code>rtsp://host:port/resource</code> • For WAP operations, enter the URL in one of the following formats: <ul style="list-style-type: none"> ○ <code>http://host/resource</code> ○ <code>http://host:port/resource</code> ○ <code>https://host/resource</code> ○ <code>https://host:port/resource</code>
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.	<p>This column cannot be configured with the URL column simultaneously, except for the WAP operation.</p> <p>The FTP, HTTP, HTTPS and RTSP operations do not support this column.</p> <p>By default, no destination address is specified.</p> <p>Destination IP address examples:</p> <ul style="list-style-type: none"> • 1.1.1.1. • 1:1::1:1. <p>This column and the URL column cannot both be configured.</p>
DstPort	Destination port number for the operation.	N/A	Unsigned integer. Value range: 1 to 65535.	<p>This column cannot be configured with the URL column simultaneously, except in the WAP operation.</p> <p>The ICMP-echo, ARP, FTP, HTTP, HTTPS, and RTSP operations do not support this column.</p> <p>The default destination port number varies by the Type column:</p> <ul style="list-style-type: none"> • 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. • RADIUS-ACCOUNT: 1813.
SrcIP	Source IPv4 or IPv6 address	N/A	String, dotted decimal notation.	By default, no source IP address is specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
	for the probe packets.		Or hexadecimal string, colon-separated. Length: 1 to 46 characters.	Source IP address examples: <ul style="list-style-type: none"> 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.
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>The following types of interfaces can be configured as the source interface for the operation:</p> <ul style="list-style-type: none"> • VLAN interface. • Layer 3 Ethernet interface. • Layer 3 aggregate interface. • EFM interface. • Ethernet channel interface. • Management interface. • Layer 3 redundancy interface. <p>Support for interface types depends on the device model.</p>
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>
        <StrictFlag></StrictFlag>
        <HexFlag></HexFlag>
      </ExpectData>
      <ExpectFailedData>
        <Data></Data>
        <Offset></Offset>
        <StrictFlag></StrictFlag>
        <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	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: <ul style="list-style-type: none"> Data. Offset. StrictFlag. HexFlag. 	By default, no expected data is specified. Both Data and Offset must be specified. For the get-config and get-bulk-config

Column name	Column description	Column type	Data type and restrictions	Remarks
				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
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset. 	N/A
ExpectFailedData	Data expected in responses to determine a failed operation.	Data structure	Members include: <ul style="list-style-type: none"> Data. Offset. StrictFlag. 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
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	match.			
RequestDataFill	Payload fill string for each request.	Data structure	Members include: <ul style="list-style-type: none"> • 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 and contain an even number of characters.
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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>
        <StrictFlag></StrictFlag>
        <HexFlag></HexFlag>
      </ExpectData>
      <ExpectFailedData>
        <Data></Data>
        <Offset></Offset>
        <StrictFlag></StrictFlag>
        <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: <ul style="list-style-type: none"> Data. Offset. StrictFlag. HexFlag 	By default, no expected data is specified. The expected data is checked only when both data-fill and expect-data are 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.	N/A
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset. 	N/A
ExpectFailedData	Data expected in responses to determine a failed operation.	Data structure	Members include: <ul style="list-style-type: none"> Data. Offset. StrictFlag. 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset. 	N/A
RequestDataFill	Payload fill string for each request.	Data structure	Members include: <ul style="list-style-type: none"> 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 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: <ul style="list-style-type: none"> 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>

```

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

Column name	Column description	Column type	Data type and restrictions	Remarks
Operation	FTP operation type.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
        <StrictFlag></StrictFlag>
      </ExpectData>
      <SslClientPolicy></SslClientPolicy>
      <ProxyUrl></ProxyUrl>
    </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: <ul style="list-style-type: none">1—Get operation (default).2—Post operation.3—Raw Operation.	By default, the operation type is get, which means obtaining files from the 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: <ul style="list-style-type: none">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/returnX or XreturnYaaaX(X represents 0 to n spaces, Y represents 1 to n spaces and aaa represents a character

Column name	Column description	Column type	Data type and restrictions	Remarks
				string without spaces.) As a best practice, do not configure the alias.
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: <ul style="list-style-type: none"> Data. Offset. StrictFlag. 	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. Default: 0	N/A
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset. 	N/A
ProxyUrl	URL of the proxy server.	N/A	String. Length: 1 to 255 characters.	ProxyUrl is the address of proxy server, and the client to access the server through proxy server. By default, no ProxyUrl is specified for the proxy server. Valid ProxyUrl formats vary by operations: <ul style="list-style-type: none"> For HTTP operations, enter the URL in one of the following formats: <ul style="list-style-type: none"> http://host http://host:port For HTTPS operations, enter the

Column name	Column description	Column type	Data type and restrictions	Remarks
				URL in one of the following formats: <ul style="list-style-type: none"> https://<i>host</i> https://<i>host:port</i>

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	N/A	String.	By default, no login

Column name	Column description	Column type	Data type and restrictions	Remarks
	password.		Length: 1 to 40 characters.	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 and RADIUS-ACCOUNT 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.	The RADIUS-ACCOUNT operation does not support this column. 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: <ul style="list-style-type: none">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

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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 1—SNMPv1 (default). 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—SNMPv2c. 	
AgentType	SNMP agent type.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Net-Snmp (default). 1—Windows. 2—UserDefined. 	N/A
CPU	CPU usage information.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	Data	Members include:	This column can appear

Column name	Column description	Column type	Data type and restrictions	Remarks
	information of the MIB object whose statistics the SNMP DCA operation collects.	structure	<ul style="list-style-type: none"> • OidString. • Threshold. • Weight. 	at most 8 times in this row. By default, no OID data is 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>
        <StrictFlag></StrictFlag>
        <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: <ul style="list-style-type: none"> Data. Offset. StrictFlag. 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
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset. 	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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

Column name	Column description	Column type	Data type and restrictions	Remarks
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Type	Operation type	N/A	Enumeration: <ul style="list-style-type: none"> • 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 	Type ICMP-echo, ICMP-jitter and UDP-jitter are supported. You must specify a type when you create an entry that 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				is specified. IPv4 example: 1.1.1.1. IPv6 example: 1::1:1.
DstPort	Destination port number for the operation	N/A	Unsigned integer. Value range: 1 to 65535.	The type ICMP-echo, ICMP-Jitter and FTP do not support this column. The default value of destination port depend on the Type column. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • Voice/Path-jitter : 60000. • ICMP-echo/TC P/UDP-echo/D HCP/DLSw/DN S/FTP/HTTP/S NMP/UDP-trace rt/ICMP-jitter/UDP-jitter: 0.
HistoryEnable	Whether to enable the saving of history records	N/A	EnableState: <ul style="list-style-type: none"> • enable—Enable the saving of history records. • disable—Disable the saving of history records. 	The default state depend on the Type column. <ul style="list-style-type: none"> • UDP-tracert: enable. • ICMP-echo/TC P/UDP-echo/D HCP/DLSw/DN S/FTP/HTTP/S NMP: disable.
HistoryHoldTime	History records lifetime in minutes	N/A	Unsigned integer. Value range: 1 to 1440.	The default value is 120.

Column name	Column description	Column type	Data type and restrictions	Remarks
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 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.	The default value of probe count depend on the Type column. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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	N/A	EnableState: <ul style="list-style-type: none"> enable—Enable the routing table bypass feature. disable—Disable the routing table bypass 	The default state is disable.

Column name	Column description	Column type	Data type and restrictions	Remarks
	connectivity to the direct destination		feature.	
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.	Type ICMP-echo 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: <ul style="list-style-type: none"> • 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
				<ul style="list-style-type: none"> UDP-tracert: 30. ICMP-echo/TC P/UDP-echo/DHCP/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.	<p>This column and the DstIP, DstPort column cannot be configured simultaneously.</p> <p>Only the types of FTP, HTTP, HTTPS and RTSP support this column.</p> <p>By default, no URL is specified for the destination server.</p> <p>The formats of URL depend on the Type column.</p> <ul style="list-style-type: none"> FTP <p>Enter the URL in one of the following formats:</p> <p>ftp://host/filename</p> <p>ftp://host:port/filename</p> <p>When performing the get operation, the file name is required.</p> <p>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.</p> <ul style="list-style-type: none"> HTTP <p>Enter the URL in one of the following formats:</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				http://host/resource http://host:port/resource <ul style="list-style-type: none"> HTTPS Enter the URL in one of the following formats: https://host/resource https://host:port/resource <ul style="list-style-type: none"> 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>
    <OutIf></OutIf>
  </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

Column name	Column description	Column type	Data type and restrictions	Remarks
OutIf	Output interface	N/A	String, case-insensitive. Length: 2 to 47 characters.	For successful operation, the specified output interface must be up.

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
StartTime	Start time	N/A	Member include: <ul style="list-style-type: none"> StartNow Time 	When StartNow is true, StartTime cannot be specified. When StartTime is specified, StartNow must be false.
StartNow	Start now	N/A	Boolean: <ul style="list-style-type: none"> true false 	True means to start the operation immediately.
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	Member include: <ul style="list-style-type: none"> Forever Duration 	When Forever is true, Duration cannot be specified. When Duration is specified, Forever must be false.
Forever	Forever	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>

```

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: <ul style="list-style-type: none"> 1—probe-duration 2—probe-fail 3—rtt 4—packet-loss 5—jitter-sd 	Support for the CheckedElement varies by NQA entry operation type. Details are as follow: <ul style="list-style-type: none"> ICMP-echo: probe-duration/probe-fail

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 6—jitter-ds 7—icpif 8—mos 9—owd-sd 10—owd-ds 	<ul style="list-style-type: none"> ICMP-jitter: jitter-sd/jitter-ds/owd-sd/owd-ds/packet-loss/rtt UDP-jitter: jitter-sd/jitter-ds/owd-sd/owd-ds/packet-loss/rtt
ThresholdType	Threshold type	Data structure	Member include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—average 2—consecutive 3—accumulate 	Support for the violation type varies by monitored element. Details are as follow: <ul style="list-style-type: none"> 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.	<p>The value of Occurrences is valid if the Type is consecutive or accumulate.</p> <p>The value range of occurrences depends on the NQA entry operation type and the monitored element. Details are as follow:</p> <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	<p>The value range of threshold depends on the value of CheckedElement. Details are as follow:</p> <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—none 1—trap-only 2—trigger-only 	Support for the action varies by monitored element. Details are as follow: <ul style="list-style-type: none"> 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.

NQA/ClientStatus

This table contains information about NQA client enabling status.

XML structure

```
<NQA>
  <ClientStatus>
    <Enable></Enable>
  </ClientStatus>
</NQA>
```

Table description

Item	Description
Feature name	NQA
Table name	ClientStatus
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 client	N/A	Enabling status: <ul style="list-style-type: none">enable—NQA client is enabled.disable—NQA client is disabled.	By default, the NQA client is enabled.

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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: <ul style="list-style-type: none"> • 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. • 29—Y1564. • 30—RADIUS-ACCOUNT. 	NQA templates are not available for the following types of operations: <ul style="list-style-type: none"> • DLSW. • DHCP. • UDP-jitter. • Voice. • Path-jitter. • UDP-tracert. • Throughput. • Latency. • Frame-loss. • ICMP-jitter. • Y1564.
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 name	Column description	Column type	Data type and restrictions	Remarks
				<p>column.</p> <ul style="list-style-type: none"> FTP/HTTP/HTTPS/SNMP-DCA/WAP: 10 to 86400000. ICMP-echo/UDP-echo/TCP/SNMP/DNS/ARP/IMAP/POP3/RADIUS/RTSP/SIP/SMTP/SSL/TCP half-open/RADIUS-ACCOUNT: 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.	<p>This column cannot be configured with the DstIP or DstPort column simultaneously, except for the WAP operation.</p> <p>Only the FTP, HTTP, HTTPS, RTSP, and WAP operations support this column.</p>
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.	<p>This column cannot be configured with the URL column simultaneously, except for the WAP operation.</p> <p>The FTP, HTTP, HTTPS and RTSP operations do not support this column.</p>
DstPort	Destination port number for the operation.	N/A	Unsigned integer. Value range: 1 to 65535.	<ul style="list-style-type: none"> This column and the URL column will not be available simultaneously. Type ICMP-echo, ARP, FTP, HTTP, HTTPS and RTSP 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
TriggerPassCount	Number of consecutive successful probes to determine a successful operation event.	N/A	Unsigned integer. Value range: 1 to 15.	N/A
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: <ul style="list-style-type: none"> true—Report for 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: <ul style="list-style-type: none"> 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>
    <StrictFlag></StrictFlag>
    <HexFlag></HexFlag>
  </ExpectData>
  <ExpectFailedData>
    <Data></Data>
    <Offset></Offset>
    <StrictFlag></StrictFlag>
    <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	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	string for each request.		Length: 1 to 200 characters.	
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: <ul style="list-style-type: none"> Data. Offset. StrictFlag. 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
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset. 	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Data. Offset. StrictFlag. 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
StrictFlag	Whether the data is matched by exact matching	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). If the value is set to false, the 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	method. Enabling status of the strict offset match.		match operation follows the method defined by the offset.	
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—The data is a hexadecimal string. false—The data is a general string. 	N/A
RawFlag	Whether the raw mode is used.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
  <StrictFlag></StrictFlag>
  <HexFlag></HexFlag>
<ExpectFailedData>
  <Data></Data>
  <Offset></Offset>
  <StrictFlag></StrictFlag>
  <HexFlag></HexFlag>
</ExpectFailedData>
<RequestDataFill>
  <Data></Data>
  <HexFlag></HexFlag>
</RequestDataFill>
<ReleaseDataFill>
  <Data></Data>
  <HexFlag></HexFlag>
</ReleaseDataFill>
</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	Data structure	Members include: <ul style="list-style-type: none"> Data. 	Both Data and Offset must be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
	successful operation.		<ul style="list-style-type: none"> Offset. StrictFlag. HexFlag. 	
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
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset. 	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Data. Offset. StrictFlag. 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
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset. 	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Data. 	Both Data and HexFlag must be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> HexFlag. 	
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>

```

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>

```

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: <ul style="list-style-type: none"> 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>
        <Offset></Offset>
        <StrictFlag></StrictFlag>
      </ExpectData>
      <SslClientPolicy></SslClientPolicy>
      <ProxyUrl></ProxyUrl>
    </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: <ul style="list-style-type: none">1—Get operation.2—Post operation.3—Raw Operation.	N/A
Version	Version	N/A	Enumeration: <ul style="list-style-type: none">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: <ul style="list-style-type: none">Data.Offset.StrictFlag.	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	N/A	Unsigned integer. Value range: 0 to 1000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	expected string.			
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset. 	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.
ProxyUrl	URL of the proxy server.	N/A	String. Length: 1 to 255 characters.	N/A

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 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
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	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

NQA/RadiusTemplates

This table contains information about RADIUS and RADIUS-ACCOUNT 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	N/A	String.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	password.		Length: 1 to 64 characters.	
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: <ul style="list-style-type: none"> 1—Options method. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			2—Describe method.	

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—SNMPv1. 2—SNMPv2c. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AgentType	SNMP agent type.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Net-Snmp. 1—Windows. 2—UserDefined. 	N/A
CPU	CPU usage information.	Data structure	Members include: <ul style="list-style-type: none"> Threshold. Weight. 	Both Threshold and Weight must be specified.
Threshold	CPU usage threshold.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
Weight	CPU usage weight.	N/A	Unsigned integer. Value range: 0 to 100.	N/A
Memory	Memory usage information.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
        <StrictFlag></StrictFlag>
        <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: <ul style="list-style-type: none">Data.Offset.StrictFlag.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	N/A	Unsigned integer. Value range: 0 to 1000.	N/A

	the expected string.			
StrictFlag	Whether the data is matched by exact matching method. Enabling status of the strict offset match.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). If the value is set to false, the match operation follows the method defined by the offset. 	N/A
HexFlag	Whether the data is a hexadecimal string.	N/A	Boolean: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
PortDetectEnable	Whether the port detection mode is enabled.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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.
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: <ul style="list-style-type: none"> • 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

Column name	Column description	Column type	Data type and restrictions	Remarks
OperationTag	Operation tag	Index	String, case-insensitive. Length: 1 to 32 characters.	N/A
Type	Operation type	N/A	Enumeration: <ul style="list-style-type: none"> • 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 	Type ICMP-echo, ICMP-jitter and UDP-jitter are supported.
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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> 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 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::1:1:1.
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: <ul style="list-style-type: none"> 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,

Column name	Column description	Column type	Data type and restrictions	Remarks
				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 packets	N/A	Unsigned integer. Value range: 1 to 255.	The type ARP 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 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 simultaneously. 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>

```



```

    </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.	N/A
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>
      <OutIf></OutIf>
    </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	N/A	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	string for probe packets		Length: 1 to 200 characters.	
DataSize	Payload size for each probe packet	N/A	Unsigned integer. Value range: 68 to 65507.	N/A
OutIf	Output interface, including the interface type and interface number.	N/A	String, case-insensitive. Length: 2 to 47 characters.	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: <ul style="list-style-type: none"> StartNow Time 	Time will not be available when StartNow is true
StartNow	Start now	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Forever Duration 	Duration will not be available when Forever is true or when the entry is not scheduled.
Forever	Forever	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
    </ReactionTriggerFailItem>
  </ReactionTriggerFailItems>
</NQA>

```



```

    <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type Occurrences 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Threshold violation type	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—none 1—trap-only 2—trigger-only 	N/A

NQA/ClientStatus

This table contains information about NQA client enabling status.

XML structure

```

<NQA>
  <ClientStatus>
    <Enable></Enable>
  </ClientStatus>
</NQA>

```

Table description

Item	Description
Feature name	NQA
Table name	ClientStatus
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 client	N/A	Enabling status: <ul style="list-style-type: none">• enable—NQA client is enabled.• disable—NQA client is disabled.	N/A

Contents

NQA1

 NQA/Client1

NQA

NQA/Client

Message	Explanation
The value must not be less than %d or greater than %d. 参数范围从%d至%d。	The specified probe timeout must be within the legal range. 指定的探测超时时间必须在合法的范围内。
Incomplete NQA operation parameters. Can't start the NQA operation. 必配参数不全，无法启动调度。	When starting the NQA test, the selected test parameters must be configured. 启动NQA测试的时候，必选的测试参数必须配置。
The operation time has passed. 时间已是过去。	The start time for starting the NQA test should be less than the current system time. 启动NQA测试的开始时间应小于当前系统的时间。
Can't start the operation. Please enable the NQA client first. 启动测试失败，请先开启NQA客户端。	Before starting the NQA test, you need to start the NQA client first. 在启动NQA测试前，先需要先开启NQA客户端。
Can't modify any existing schedule. 调度已启动，不可以修改。	After the NQA test is started, the scheduling parameters of the scheduling test cannot be modified. NQA测试启动后，不能修改调度测试的调度参数。
Can't modify a scheduled operation. 测试项组已启动调度，不可以修改配置。	After the test group starts the scheduling test, the configuration of the test group is not allowed to be modified. 测试组启动调度测试后，不允许对测试组的配置进行修改。
The lifetime for a recurring NQA operation can't be forever. 已配置recurring，必须配置有限的lifetime。	When the specified NQA test group is scheduled to run every day, the duration of the test cannot be unlimited. 指定NQA测试组每天都被调度运行时，测试的持续时间不能是无限的。
The lifetime for a recurring NQA operation must be less than one day. 已配置recurring，lifetime必须小于一天。	When the specified NQA test group is scheduled to run every day, the duration of the test must be the same day. 指定NQA测试组每天都被调度运行时，测试的持续时间必须小于一天。
The start time is invalid. 配置测试组启动日期，不在有效时间范围内。	The start time of the NQA startup test should be within the valid range. NQA启动测试的开始时间要在有效的范围内。
No operation type is specified. 未配置当前测试组的测试类型。	The type of the specified NQA test group must be configured when the create, merge and replace operations are performed. 当执行create、merge、replace操作时，指定的NQA测试组类型必须已经配置。
The NQA reaction parameter can't be modified. 不支持修改监测参数。	Alarm parameters that already have the same threshold number are not allowed to be modified. 已存在的相同的阈值编号的告警参数不允许修改。

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 - NQAS/Servers 1
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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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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.	N/A

Contents

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 - NQAS/ServerStatus 1
 - XML structure 1
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 - Columns 1
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 - XML structure 1
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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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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

Contents

NQAS1

 NQAS/Server1

NQAS

NQAS/Server

Message	Explanation
The NQA server parameters can't be modified. 不支持修改监听服务器参数。	A listening service has been created that does not allow modification of the parameters of this listening service. 已经创建好的监听服务，不允许修改这个监听服务的参数。
Can't configure more. The maximum number of listening services are reached. 监听服务个数已达上限。	The number of listening services that have been created has reached the number of devices. 已经创建的监听服务的数量，已经达到设备的上限。

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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: <ul style="list-style-type: none"> 1—SrcIP 4—Application 8—User 64—Context 	
ChartType	Type of the chart	N/A	Enumeration: <ul style="list-style-type: none"> 1—Pie chart 2—Bar chart 	N/A
TrafficType	Type of the traffic	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
  </ExportThreatTopChart>
</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: <ul style="list-style-type: none">• 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
			<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
    <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: <ul style="list-style-type: none"> 1—ThreatType 2—Application 4—Attacker 8—AttackerTarget 16—ThreatID 32—User 	N/A
ChartType	Type of the chart	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> StartTime EndTime 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
    </Chart>
  </ExportThreatTopChart>
</NTOP>

```



```

    <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—IPS 2—AV 	If GroupType is 16, ThreatType must not be NULL.
GroupValueList	Trend value list	Data structure	Members include: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
TimeFilter	Query time range	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">1—Urlcategory2—Website4—User8—SrcIP16—DstIP	N/A
ChartType	Type of the chart	N/A	Enumeration: <ul style="list-style-type: none">1—Pie chart2—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: <ul style="list-style-type: none">StartTimeEndTime	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: <ul style="list-style-type: none">1—Urlcategory2—Website4—User8—SrcIP16—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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">1—FileFilter	N/A
ChartType	Type of the chart	N/A	Enumeration: <ul style="list-style-type: none">1—Pie chart2—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: <ul style="list-style-type: none">StartTimeEndTime	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 <ul style="list-style-type: none">0—Traffic flow1—Traffic flow rate	N/A
TrafficType	Type of the traffic	Index	Enumeration: <ul style="list-style-type: none">0—Total bytes1—bytes2—Reply bytes	N/A
FilterType	Filter type	N/A	Unsigned integer <ul style="list-style-type: none">1—SrcIP4—Application8—User64—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: <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Total bytes 1—Bytes 2—Reply bytes 	N/A
TimeRange	Time range	Index	Enumeration: <ul style="list-style-type: none"> 0—Hour 1—Day 2—Week 	N/A
TimeFilter	Query time range	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Period report 2—Comparison report 3—Intelligent report 4—Integrated report 	N/A
ReportCustomization	Report customization	N/A	Unsigned integer: <ul style="list-style-type: none"> 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/Report Chapter.
TimeFilter	Query time range	Data structure	Members include: <ul style="list-style-type: none"> StartTime EndTime CompStartTime 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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

NTOP/StorageDevice

This table is used to operate the storage device of NTOP.

XML structure

```

<NTOP>
  <StorageDevice>
    <OperationType></OperationType>
  </StorageDevice>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	StorageDevice
Table Type	Single -instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OperationType	Type of the operation	N/A	Enumeration: <ul style="list-style-type: none">• 0—Unload the storage device	N/A

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Table description	4
Columns	4

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: <ul style="list-style-type: none">1—ThreatLog2—TrafficLog3—URLLog4—FFilterLog	N/A
Enabled	Whether aggregation is enabled or not	N/A	Boolean: <ul style="list-style-type: none">truefalse	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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Period report 2—Comparison report 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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
			<ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> SrcIP 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">0—Total bytes1—Bytes2—Reply bytes	N/A
GroupValue	Group value	Data structure	Members include: <ul style="list-style-type: none">SrcIPDstIPApplicationAppSubCategory.UserContextNameBandwidth.SrcRegionDestRegion	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> ThreatType ThreatID Attacker AttackTarget Application User. SrcRegion DestRegion 	N/A
ThreatType	Threat type	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> ThreatType ThreatID ThreatName Application Attacker AttackTarget User. SrcRegion DestRegion 	N/A
ThreatType	Threat type	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> ThreatType ThreatID Application Attacker AttackTarget SrcRegion DestRegion User 	N/A
ThreatType	Threat type	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • StartTime 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> FileType. 	N/A
FileType	Application	N/A	String, case insensitive Length: 1 to 63 characters	N/A
GroupCounters	Group counters	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—ThreatLog 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—TrafficLog 3—URLLog 4—FFilterLog 	
Enabled	Whether aggregation is enabled or not	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> StartTime 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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
			<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <UserID></UserID>
    </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 <ul style="list-style-type: none"> 0—Traffic flow 1—Traffic flow rate 	N/A
TrafficType	Type of the traffic	Index	Enumeration: <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Total bytes 1—Bytes 2—Reply bytes 	N/A
TimeRange	Time range	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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></ConstantPercent>
      </ConstantValues>
      <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: <ul style="list-style-type: none"> 0—SrcIP 1—Application 	N/A
SortType	The type of data sort	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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

NTOP/SecurityScore

This table contains informations about security score.

XML structure

```

<NTOP>
  <SecurityScore>
    <Score>
      <ScoreType></ScoreType>
      <TotalScore></TotalScore>
      <DetailJSON></DetailJSON>
    </Score>
  </SecurityScore>
</NTOP>

```



```

    </Score>
  </SecurityScore>
</NTOP>

```

Table description

Item	Description
Feature name	NTOP
Table name	SecurityScore
Table type	Multi-instance table
Row name	Score
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ScoreType	Score type	N/A	Enumeration: <ul style="list-style-type: none"> 0—Using threat data 	N/A
TotalScore	Total score	N/A	Unsigned integer. Value range: 10 to 100	Total security score.
DetailJSON	Detail JSON	N/A	String, case-insensitive. Length: 1 to 2048 characters.	JSON packeted by numbers of different levels.

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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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">true.false (default).	N/A
SNTPEnable	Whether to enable the SNTP service.	N/A	Boolean: <ul style="list-style-type: none">true.false (default).	N/A
NTPAuthEnable	Whether to enable the NTP authentication function.	N/A	Boolean: <ul style="list-style-type: none">true.false (default).	N/A
SNTPAuthEnable	Whether to enable the SNTP authentication	N/A	Boolean: <ul style="list-style-type: none">true.false (default).	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	function.			
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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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: <ul style="list-style-type: none">1—NTP.2—SNTP.	N/A
VRF	VRF	Index	String.	It can be empty when it represents a public VRF

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 0 to 31 characters.	instance.
AddressType	Address type.	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
    </Authentication>
  </AuthenticationKey>
</NTP>

```



```

    <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">true.false.	N/A
SNTPEnable	Whether to enable the SNTP service.	N/A	Boolean: <ul style="list-style-type: none">true.false.	N/A
NTPAuthEnable	Whether to enable the NTP authentication function.	N/A	Boolean: <ul style="list-style-type: none">true.false.	N/A
SNTPAuthEnable	Whether to enable the SNTP authentication function.	N/A	Boolean: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> true. false. 	N/A
SNTPSynchro nized	Whether the SNTP clock has been synchronized	N/A	Boolean: <ul style="list-style-type: none"> true. false 	N/A

Contents

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NTP

NTP/Clients

Message	Explanation
NTP is not configured. NTP未配置。	NTP service has not been started.
SNTP is not configured. SNTP未配置。	SNTP service has not been started.
IPv6 addresses are not supported. 不支持IPv6地址。	NTP IPv6 addresses are not supported with netconf.
Failed to create an NTP association, because the maximum number is reached. 创建失败，NTP会话超过最大数量。	The maximum number of NTP sessions is 128.
Failed to create an SNTP association, because the maximum number is reached. 创建失败，SNTP会话超过最大数量。	The maximum number of SNTP sessions is 128.

NTP/AuthenticationKey

Message	Explanation
NTP is not configured. NTP未配置。	NTP service has not been started.
SNTP is not configured. SNTP未配置。	SNTP service has not been started.
Input a valid authentication key string. 请输入有效的认证字符串。	Please input a valid authentication key string when set new configuration.
Failed to create an NTP authentication key, because the maximum number is reached. 创建失败，NTP认证密钥超过最大数量。	The maximum number of NTP authentication key is 128.
You cannot delete only the authentication mode or key string. 不能只删除认证模式或者认证字符串。	You have to delete authentication mode and authentication key string at the same time.
Failed to create an SNTP authentication key, because the maximum number is reached. 创建失败，SNTP认证密钥超过最大数量。	The maximum number of SNTP authentication key is 128.

NTP/Service

Message	Explanation
Do not enable SNTP and NTP at the same time. SNTP和NTP不能同时使能。	Do not enable SNTP and NTP at the same time.
NTP is not configured. NTP未配置。	NTP service has not been started.
SNTP is not configured. SNTP未配置。	SNTP service has not been started.

NTP/RefClocks

Message	Explanation
NTP is not configured. NTP未配置。	NTP service has not been started.
IP address of the local clock must be 127.127.1.x, where x is in the range of 0 to 3. 本地时钟的IP地址127.127.1.x, x的取值范围为0~3。	The range of valid IP address of the local clock is 127.127.1.0~127.127.1.3

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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.	<p>You must create a VSI first before you merge, replace or create NVGREs.</p> <p>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.</p> <p>Can not be modified after creation</p>

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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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 enabled 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 enabled 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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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OAP

OAP/Clients

This table is used to shut down or reboot an OAP client.

XML structure

```
<OAP>
  <Clients>
    <Client>
      <ClientID></ClientID>
      <Operation></Operation>
    </Client>
  </Clients>
</OAP>
```

Table description

Item	Description
Feature name	OAP
Table name	Clients
Table type	Multi-instance table
Row name	Client
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ClientID	OAP client ID	Index	Unsigned integer: Length: 32 bits.
Operation	Operation to be performed on the client	N/A	Enumeration: <ul style="list-style-type: none">• 1—Shut down.• 2—Reboot.

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 - OAP/Base 1
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 - Table description 1
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 - OAP/Interfaces 1
 - XML structure 2
 - Table description 2
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OAP

OAP/Base

This table contains global OAP information.

XML structure

```
<OAP>
  <Base>
    <ClockSyncTime></ClockSyncTime>
    <MonitorTime></MonitorTime>
  </Base>
</OAP>
```

Table description

Item	Description
Feature name	OAP
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
ClockSyncTime	Clock synchronization timer in minutes	N/A	Unsigned integer. Value range: 0 to 1440. Default: 5. Setting it to 0 disables the feature.
MonitorTime	Client monitoring timer in seconds	N/A	Unsigned integer. Value range: 0 to 10. Default: 5. Setting it to 0 disables the timer.

OAP/Interfaces

This table contains OAP interface information.

XML structure

```
<OAP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
    </Interface>
  </Interfaces>
</OAP>
```

Table description

Item	Description
Feature name	OAP
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. 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 <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Enable	Whether the interface is enabled.	N/A	Boolean: <ul style="list-style-type: none">true—Enabled.false—Disabled.	N/A

Table 1 Methods for specifying interfaces

Value	Operation status	Remarks
1	Single interface index	<IfIndex>1</IfIndex>
2	Single interface name	<IfIndex>GigabitEthernet0/0/2</IfIndex>

3	Multiple interface names	<IfIndex>GigabitEthernet0/0/2 to GigabitEthernet0/0/3, GigabitEthernet1/0/2 to GigabitEthernet1/0/3, Bridge-Aggregation1</IfIndex>
4	Interface range name	<IfIndex>RangeName</IfIndex>
5	Interface range name and interface names	<IfIndex>GigabitEthernet0/0/2 to GigabitEthernet0/0/3, GigabitEthernet1/0/2 to GigabitEthernet1/0/3, Bridge-Aggregation1</IfIndex>

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OAP

OAP/Base

This table contains global OAP information.

XML structure

```
<OAP>
  <Base>
    <ClockSyncTime></ClockSyncTime>
    <MonitorTime></MonitorTime>
  </Base>
</OAP>
```

Table description

Item	Description
Feature name	OAP
Table name	Base
Table type	Single-instance table
Row name	None
Restrictions	This table contains only global settings.

Columns

Column name	Column description	Column type	Data type and restrictions
ClockSyncTime	Clock synchronization timer in minutes	N/A	Unsigned integer. Value range: 0 to 1440. Default: 5. Setting it to 0 disables the feature.
MonitorTime	Client monitoring timer in seconds	N/A	Unsigned integer. Value range: 0 to 10. Default: 5. Setting it to 0 disables the timer.

OAP/Interfaces

This table contains OAP interface information.

XML structure

```
<OAP>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <Enable></Enable>
      <ClientIDList></ClientIDList>
    </Interface>
  </Interfaces>
</OAP>
```

Table description

Item	Description
Feature name	OAP
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. 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 <i>Ifmgr NETCONF XML API Configuration Reference</i> .
Enable	Whether the interface is enabled	N/A	Boolean: <ul style="list-style-type: none">true—Enabled.false—Disabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientIDList	Client ID list, which includes all registered clients.	N/A	<p>Bitmap. No length restrictions.</p> <p>Each bit represents a client. If the value of a bit is '1', the client ID is included in the list. If the value of a bit is '0', the client ID is not included in the list.</p> <p>The first octet specifies client IDs 1 through 8, the second octet specifies client IDs 9 through 16, and so on. Within each octet, the most significant bit represents the lowest numbered client, and the least significant bit represents the highest numbered client.</p>	N/A

OAP/Clients

This table contains OAP client information.

XML structure

```

<OAP>
  <Clients>
    <Client>
      <ClientID></ClientID>
      <IfIndex></IfIndex>
      <MacAddress></MacAddress>
      <LastRegisteredTime></LastRegisteredTime>
      <ClientDescription></ClientDescription>
      <Hardware></Hardware>
      <SystemSoftware></SystemSoftware>
      <ApplicationSoftware></ApplicationSoftware>
      <CPUInfo></CPUInfo>
      <PCBVersion></PCBVersion>
      <CPLDVersion></CPLDVersion>
      <BootromVersion></BootromVersion>
      <StorageCard></StorageCard>
      <Memory></Memory>
      <Harddisk></Harddisk>
    </Client>
  </Clients>
</OAP>

```


Table description

Item	Description
Feature name	OAP
Table name	Clients
Table type	Multi-instance table
Row name	Client
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
ClientID	OAP client ID	Index	Unsigned integer: Length: 32 bits.
IfIndex	Interface index	N/A	Unsigned integer. Length: 32 bits.
MacAddress	MAC address of the client	N/A	A 6-octet MAC address value. Format: H-H-H.
LastRegisteredTime	Time when the client registered	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.
ClientDescription	Description for the OAP client	N/A	String. Length: 1 to 253 characters.
Hardware	Hardware information	N/A	String. Length: 1 to 253 characters.
SystemSoftware	System software information	N/A	String. Length: 1 to 253 characters.
ApplicationSoftware	Application information	N/A	String. Length: 1 to 253 characters.
CPUInfo	CPU information	N/A	String. Length: 1 to 253 characters.
PCBVersion	PCB version	N/A	String. Length: 1 to 253 characters.
CPLDVersion	CPLD version	N/A	String. Length: 1 to 253 characters.
BootromVersion	BootROM version	N/A	String. Length: 1 to 253 characters.
StorageCard	Storage size	N/A	String. Length: 1 to 253 characters.
Memory	Memory size	N/A	String. Length: 1 to 253 characters.

Column name	Column description	Column type	Data type and restrictions
Harddisk	Hard disk size	N/A	String. Length: 1 to 253 characters.

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 - XML structure.....2
 - Table description.....2
 - Columns.....2

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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enable (default). false—Disable. 	Optional.
Log	Whether to enable logging	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • true—Enable (default). • false—Disable. 	Optional.
Log	Whether to enable logging	N/A	Boolean: <ul style="list-style-type: none"> • true—Enable. • false—Disable (default). 	Optional.
Counting	Whether to enable Counting	N/A	Boolean: <ul style="list-style-type: none"> • 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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Columns	4
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XML structure	4
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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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true—Effective. • false—Not effective.
Enable	Whether the rule is enabled	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled. • false—Not enabled.
Log	Whether logging is enabled	N/A	Boolean: <ul style="list-style-type: none"> • true—Enabled. • false—Not enabled.
Counting	Whether counting is enabled.	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Effective. false—Not effective.
Enable	Whether the rule is enabled	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Not enabled.
Log	Whether logging is enabled	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Not enabled.
Counting	Whether counting is enabled.	N/A	Boolean: <ul style="list-style-type: none"> 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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OBJP

OBJP

Message	Explanation
Failed to create the rule because the rule number exceeds the upper limit. 由于已经达到规则数上限，创建规则失败。	The number of rules configured by the object policy reaches the upper limit. 对象策略配置的规则数达到上限。
Source IP address object group does not exist. 指定的源IP地址对象组不存在。	The object-group referenced by the IPv4 source address of the rule does not exist. 规则中IPv4源地址引用的对象组不存在。
Illegal source IP address object group type. 指定的源IP地址对象组类型不正确。	The object-group type referenced by the IPv4 source address is not the IPv4 type. 规则中IPv4源地址引用的对象组类型不是IPv4。
Destination IP address object group does not exist. 指定的目的IP地址对象组不存在。	The object-group referenced by the IPv4 destination address of the rule does not exist. 规则中IPv4目的地址引用的对象组不存在。
Illegal destination IP address object group type. 指定的目的IP地址对象组类型不正确。	The object-group type referenced by the IPv4 destination address is not the IPv4 type. 规则中IPv4目的地址引用的对象组类型不是IPv4。
Source IPv6 address object group does not exist. 指定的源IPv6地址对象组不存在。	The object-group referenced by the IPv6 source address of the rule does not exist. 规则中IPv6源地址引用的对象组不存在。
Illegal source IPv6 address object group type. 指定的源IPv6地址对象组类型不正确。	The object-group type referenced by the IPv6 destination address is not the IPv6 type. 规则中IPv6源地址引用的对象组类型不是IPv6。
Destination IPv6 address object group does not exist. 指定的目的IPv6地址对象组不存在。	The object-group referenced by the IPv6 destination address of the rule does not exist. 规则中IPv6目的地址引用的对象组不存在。
Illegal destination IPv6 address object group type. 指定的目的IPv6地址对象组类型不正确。	The object-group type referenced by the IPv6 destination address is not the IPv6 type. 规则中IPv6目的地址引用的对象组类型不是IPv6。
Service object group does not exist. 指定的服务对象组不存在。	The object-group referenced by the service of the rule does not exist. 规则中服务引用的对象组不存在。
Illegal service object group type. 指定的服务对象组类型不正确。	The object-group type referenced by the service is not the service type. 规则中服务引用的对象组类型不是服务类型。
The time range does not exist and the rule will be set to inactive. 由于指定的时间段不存在，该规则不会生效。	The time range name referenced by the rule does not exist. 规则中引用的时间段名称不存在。
Failed to move the rule because the ID of the rule to be moved is equal to the target one. 由于指定规则和目标规则的编号相同，移动规则失	The source rule number specified when moving the rule is the same as the destination number. 移动规则时指定的源规则编号与目的编号一样。

败。	
Failed to move the rule because the specified rule does not exist. 由于指定规则或目标规则不存在，移动规则失败。	The source rule number specified when the rule was moved does not exist. 移动规则时指定的源规则编号不存在。
The rule does not exist. Please create the rule before adding a comment. 由于指定的规则不存在，添加规则描述信息失败。	The rule number specified when adding rule comment information does not exist. 添加规则评审信息时指定的规则编号不存在。
Failed to insert the rule because the specified rule does not exist. 由于指定的规则不存在，规则插入失败。	Specifies that the rule number to be inserted is not created. 指定要插入的规则编号没有被创建。
Failed to create the rule because the action of the rule is not specified. 由于未指定规则动作，创建规则失败。	Failure to specify a rule action cause the create operation to fail to create a rule. 没有指定规则动作导致create操作创建规则失败。
Failed to merge the rule because the action of the rule is not specified. 由于未指定规则动作，创建规则失败。	Failure to specify a rule action cause the merge operation to fail to create a rule. 没有指定规则动作导致merge操作创建规则失败。
Failed to replace the rule because the action of the rule is not specified. 由于未指定规则动作，创建规则失败。	Failure to specify a rule action cause the replace operation to fail to create a rule. 没有指定规则动作导致replace操作创建规则失败。
Failed to create the rule because the ID of the rule to be moved is equal to the target one. 由于指定规则编号和目标规则编号相同，移动规则失败	The source rule number specified when the rule is moved is the same as the destination number, causing the create operation to fail. 移动规则时指定的源规则编号与目的编号一样导致create操作失败。
Failed to merge the rule because the ID of the rule to be moved is equal to the target one. 由于指定规则编号和目标规则编号相同，移动规则失败	The source rule number specified when the rule is moved is the same as the destination number, causing the merge operation to fail. 移动规则时指定的源规则编号与目的编号一样导致merge操作失败。
Failed to replace the rule because the ID of the rule to be moved is equal to the target one. 由于指定规则编号和目标规则编号相同，移动规则失败	The source rule number specified when the rule is moved is the same as the destination number, causing the replace operation to fail. 移动规则时指定的源规则编号与目的编号一样导致replace操作失败。
Failed to create the rule because the rule to insert before does not exist. 由于目标规则不存在，移动规则失败。	The source rule number specified when the rule was moved does not exist, causing the create operation to fail. 移动规则时指定的源规则编号不存在导致create操作失败。
Failed to merge the rule because the rule to insert before does not exist. 由于目标规则不存在，移动规则失败。	The source rule number specified when the rule was moved does not exist, causing the merge operation to fail. 移动规则时指定的源规则编号不存在导致merge操作失败。
Failed to replace the rule because the rule to insert before does not exist. 由于目标规则不存在，移动规则失败。	The source rule number specified when the rule was moved does not exist, causing the replace operation to fail. 移动规则时指定的源规则编号不存在导致replace操作失败。
Can not use 'all' as time range name. 时间段名称不能为“all”。	The time range name referenced by the rule cannot be “all”. 规则引用的时间段名称不能为“all”。
The maximum number of rules has been reached. 由于已经达到规则数上限，创建规则失败。	Object policy configuration rules reach the upper limit. 对象策略配置的规则达到上限。

<p>If the action is set to "inspect", you must specify an inspect profile.</p> <p>指定动作为Inspect时，必须指定Profile。</p>	<p>The profile name is not specified when the specified rule action is inspect.</p> <p>指定规则动作为Inspect时没有指定Profile名称。</p>
<p>If the profile is specified, the action should be set to "inspect".</p> <p>指定Profile时，必须指定动作为Inspect。</p>	<p>Rule action is not inspect when specifying profile name.</p> <p>指定Profile名称时规则动作不是Inspect。</p>
<p>The app group does not exist.</p> <p>指定的应用组不存在。</p>	<p>The application group referenced by the rule has not been created.</p> <p>规则引用的应用组没有被创建。</p>
<p>The application does not exist.</p> <p>指定的应用不存在。</p>	<p>The application referenced by the rule has not been created.</p> <p>规则引用的应用没有被创建。</p>
<p>The app group and the application does not exist, the rule does not match packets.</p> <p>指定的应用组和应用都不存在，该规则不会匹配报文。</p>	<p>The application group and application referenced by the rule have not been created.</p> <p>规则引用的应用组和引用都没有被创建。</p>
<p>The application does not exist, the rule does not match packets.</p> <p>指定的应用不存在，该规则不会匹配报文。</p>	<p>The application referenced by the rule has not been created.</p> <p>规则引用的应用没有被创建。</p>
<p>The app group does not exist, the rule does not match packets.</p> <p>指定的应用组不存在，该规则不会匹配报文。</p>	<p>The application group referenced by the rule has not been created.</p> <p>规则引用的应用组没有被创建。</p>
<p>Can not use 'invalid' or 'other' as app-group or application name.</p> <p>应用组或应用名称不能为'invalid'或'other'。</p>	<p>The application group or application name referenced by the rule is "invalid" or "other".</p> <p>规则引用的应用组或引用名称为“invalid”或“other”。</p>
<p>Failed to create the interzone policy because the policy number exceeds the upper limit.</p> <p>由于已经达到域间策略个数上限，创建策略失败。</p>	<p>The number of interzone policy applications has reached the upper limit.</p> <p>域间策略应用个数达到上限。</p>
<p>The object policy does not exist.</p> <p>指定的对象策略不存在。</p>	<p>The specified object policy name was not created.</p> <p>指定的对象策略名称没有创建。</p>
<p>The specified source zone doesn't exist.</p> <p>指定的源安全域不存在。</p>	<p>The specified source zone name was not created.</p> <p>指定的源安全域名称没有创建。</p>
<p>The specified destination zone doesn't exist.</p> <p>指定的目的安全域不存在。</p>	<p>The specified destination zone name was not created.</p> <p>指定的目的安全域名称没有创建。</p>

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OMS

OMS/RenameGroups

This table contains information about the rename object groups.

XML structure

```
<OMS>
  <RenameGroups>
    <Group>
      <Name></Name>
      <NewName></NewName>
      <Rename></Rename>
    </Group>
  </RenameGroups>
</OMS>
```

Table description

Item	Description
Feature name	OMS
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.

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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> • 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 .

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OVS

OVS/IPv4Groups

This table contains information about IPv4 address object groups.

XML structure

```
<OVS>
  <IPv4Groups>
    <Group>
      <Name></Name>
      <Description></Description>
      <ObjNum></ObjNum>
      <InUse></InUse>
      <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

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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/MACPaging

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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
    
```



```

<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: <ul style="list-style-type: none"> 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

Contents

OMS.....1

 OMS1

OMS

OMS

Message	Explanation
The object group name is used by an object group of different type. 存在同名不同类型的对象组。	Object group name is occupied by other types of object groups. 对象组名称被其他类型的对象组占用。
The default object group can't be modified. 系统定义对象组不能修改。	Modify system predefined object groups. 修改系统预定义的对象组。
The default object group can't be deleted. 系统定义对象组不能删除。	Delete system predefined object groups. 删除系统预定义的对象组。
Deleting the group failed: Wrong group type. 对象组类型不匹配。	The specified type is incorrect when deleting an object group. 删除对象组时指定类型错误。
This object group is already referenced. 对象组正在被使用。	Deleted object groups are referenced by other modules. 删除的对象组被其他模块引用。
The ID can't be automatically assigned. Please specify a valid ID. 自动分配的对象编号超出了范围，请指定一个有效的对象编号。	Create a rule without specifying a number, the number of internal assignments exceeds the maximum value. 不指定编号创建规则，内部分配的编号超过最大值。
An object group can't reference an object group of different type. 被嵌套对象组类型不一致。	Nested object group types are inconsistent with parent object group types. 嵌套的对象组类型与父对象组类型不一致。
Maximum number of reference hierarchy layers (5) already reached. 嵌套层数最大支持5层。	The object group to be nested is already the sixth layer. 将要嵌套的对象组已经是第六层。
Two object groups can't reference each other. 不能形成循环引用。	A nested sub-object group cannot nest its parent object group. 被嵌套的子对象组不能嵌套其父对象组。
Invalid mask. 无效的掩码。	The address mask entered is incorrect. 输入的地址掩码错误。
Maximum number of objects already reached. 对象组中对象的个数超过了限制。	Object group configuration rules reach the upper limit. 对象组配置的规则达到上限。
The object already exists. 此对象已经存在。	The newly created rule content is the same as the other rule content that already exists. 新创建的规则内容与已存在的其他规则内容相同。
This object group can't be referenced. 此对象组不可以被引用。	System predefined object group "any" cannot be nested. 系统预定义的对象组any不能被嵌套。

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openconfig-bgp

openconfig-bgp/bgp

This table contains bgp information.

XML structure

```
<openconfig-bgp>
  <bgp>
    <global>
      <config>
        <as></as>
        <router-id></router-id>
      </config>
    <default-route-distance>
      <config>
        <external-route-distance></external-route-distance>
        <internal-route-distance></internal-route-distance>
      </config>
    </default-route-distance>
    <route-selection-options>
      <config>
        <always-compare-med></always-compare-med>
      </config>
    </route-selection-options>
    <afi-safis>
      <afi-safi>
        <afi-safi-name></afi-safi-name>
        <config>
          <afi-safi-name></afi-safi-name>
          <enabled></enabled>
        </config>
        <use-multiple-paths>
          <config>
            <enabled></enabled>
          </config>
        <ebgp>
          <config>
            <maximum-paths></maximum-paths>
          </config>
        </ebgp>
        <ibgp>
          <config>
            <maximum-paths></maximum-paths>
          </config>
        </ibgp>
      </afi-safi>
    </afi-safis>
  </bgp>
</openconfig-bgp>
```



```

        </ibgp>
    </use-multiple-paths>
</afi-safi>
</afi-safis>
</global>
<peer-groups>
    <peer-group>
        <peer-group-name></peer-group-name>
        <config>
            <peer-group-name></peer-group-name>
            <peer-as></peer-as>
            <peer-type></peer-type>
            <auth-password></auth-password>
            <send-community></send-community>
            <description></description>
        </config>
        <timers>
            <config>
                <minimum-advertisement-interval></minimum-advertisement-interval>
            </config>
        </timers>
        <apply-policy>
            <config>
                <import-policy></import-policy>
                <export-policy></export-policy>
            </config>
        </apply-policy>
    </peer-group>
</peer-groups>
<neighbors>
    <neighbor>
        <neighbor-address></neighbor-address>
        <config>

```



```

    <neighbor-address></neighbor-address>
    <enabled></enabled>
    <peer-as></peer-as>
    <peer-group></peer-group>
    <auth-password></auth-password>
    <send-community></send-community>
    <description></description>
</config>
<state>
    <neighbor-address></neighbor-address>
    <enabled></enabled>
    <peer-as></peer-as>
    <session-state></session-state>
    <peer-group></peer-group>
    <auth-password></auth-password>
    <send-community></send-community>
    <description></description>
</state>
<timers>
    <config>
        <minimum-advertisement-interval></minimum-advertisement-interval>
    </config>
</timers>
<apply-policy>
    <config>
        <import-policy></import-policy>
        <export-policy></export-policy>
    </config>
</apply-policy>
<afi-safis>
    <afi-safi>
        <afi-safi-name></afi-safi-name>
        <config>
            <afi-safi-name></afi-safi-name>
            <enabled></enabled>
        </config>
        <apply-policy>
            <config>
                <import-policy></import-policy>
                <export-policy></export-policy>
            </config>
        </apply-policy>
    </afi-safi>
</afi-safis>
</neighbor>
</neighbors>
</bgp>
</openconfig-bgp>

```


Table description

Item	Description
Feature name	openconfig-bgp
Table name	bgp
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
global	global information	Subtable	N/A	For more information, see the bgp/global table.
peer-groups	peer-groups information	Subtable	N/A	For more information, see the bgp/peer-groups table.
neighbors	neighbors information	Subtable	N/A	For more information, see the bgp/neighbors table.

openconfig-bgp/bgp/global

This table contains bgp global information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	global
Table type	Single-instance table
Row name	N/A
Restrictions	None

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Config information	Subtable	N/A	For more information, see the bgp/global/config table.
default-route-distance	default-route-distance information	Subtable	N/A	For more information, see the bgp/global/default-route-distance.
route-selection-options	route-selection-options information	Subtable	N/A	For more information, see the bgp/global/route-selection-options.
afi-safis	afi-safis information	Subtable	N/A	For more information, see the bgp/global/afi-safis.

openconfig-bgp/bgp/global/config

This table contains bgp global config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
as	Local autonomous system number	N/A	32-bit as-number type from the model in RFC 6991.	N/A
router-id	Router id	N/A	IPv4 address string	N/A

openconfig-bgp/bgp/global/default-route-distance

This table contains bgp global default-route-distance information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	default-route-distance
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/global/default-route-distance/config table.

openconfig-bgp/bgp/global/default-route-distance/config

This table contains bgp global default-route-distance config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
external-route-distance	Administrative distance for routes learned from external	N/A	Unsigned int. Value range: 1 to 255	N/A
internal-route-distance	Administrative distance for routes learned from internal	N/A	Unsigned int. Value range: 1 to 255	N/A

openconfig-bgp/bgp/global/route-selection-options

This table contains bgp global route-selection-options information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	route-selection-options
Table type	Single-instance table

Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/global/route-selection-options/config table.

openconfig-bgp/bgp/global/route-selection-options/config

This table contains bgp global route-selection-options config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
always-compare-med	Compare multi-exit discriminator (MED) value from different ASes	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A

openconfig-bgp/bgp/global/afi-safis

This table contains bgp global afi-safis information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	afi-safis
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi	afi-saf information	Sublist	N/A	For more information, see the bgp/global/afi-safis/afi-safi table.

openconfig-bgp/bgp/global/afi-safis/afi-safi

This table contains bgp global afi-safis afi-safi information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	afi-safi

Table type	Multi-instance table
Row name	afi-safi
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi-name	AFI,SAFI	Index	Enumeration: <ul style="list-style-type: none"> • 1—IPV4_UNICAST. • 2—IPV6_UNICAST. • 3—L3VPN_IPV4_UNICAST • 4—L3VPN_IPV6_UNICAST • 5—L2VPN_VPLS • 6—L2VPN_EVPN. • 7—IPV4_LABELED_UNICAST • 8—IPV6_LABELED_UNICAST • 9—L3VPN_IPV4_MULTICAST • 10—L3VPN_IPV6_MULTICAST 	N/A
config	config information	Subtable	N/A	For more information, see the bgp/global/afi-safis/afi-safi/config table.
use-multiple-paths	use-multiple-paths information	Subtable	N/A	For more information, see the bgp/global/afi-safis/afi-safi/use-multiple-paths table.

openconfig-bgp/bgp/global/afi-safis/afi-safi/config

This table contains bgp global afi-safis afi-safi config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi-name	AFI,SAFI	Index	Enumeration: <ul style="list-style-type: none">• 1—IPV4_UNICAST.• 2—IPV6_UNICAST.• 3—L3VPN_IPV4_UNICAST• 4—L3VPN_IPV6_UNICAST• 5—L2VPN_VPLS• 6—L2VPN_EVPN.• 7—IPV4_LABELED_UNICAST• 8—IPV6_LABELED_UNICAST• 9—L3VPN_IPV4_MULTICAST• 10—L3VPN_IPV6_MULTICAST	N/A
enabled	indicates whether the AFI,SAFI is enabled	N/A	Boolean: <ul style="list-style-type: none">• true• false	N/A

openconfig-bgp/bgp/global/afi-safis/afi-safi/use-multiple-paths

This table contains bgp global afi-safis afi-safi use-multiple-paths information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	use-multiple-paths
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/global/afi-safis/afi-safi/use-multiple-paths/config table.
ebgp	ebgp information	Subtable	N/A	For more information, see the bgp/global/afi-safis/afi-safi/use-multiple-paths/ebgp table.
ibgp	ebgp information	Subtable	N/A	For more information, see the bgp/global/afi-safis/afi-safi/use-multiple-paths/ibgp table.

openconfig-bgp/bgp/global/afi-safis/afi-safi/use-multiple-paths/config

This table contains bgp global afi-safis afi-safi use-multiple-paths config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
enabled	indicates whether the AFI,SAFI is enabled	N/A	Boolean: <ul style="list-style-type: none">truefalse	N/A

openconfig-bgp/bgp/global/afi-safis/afi-safi/use-multiple-paths/ebgp

This table contains bgp global afi-safis afi-safi use-multiple-paths ebgp information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp

Table name	ebgp
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/global/afi-safis/afi-safi/use-multiple-paths/ebgp/config table.

openconfig-bgp/bgp/global/afi-safis/afi-safi/use-multiple-paths/ebgp/config

This table contains bgp global afi-safis afi-safi use-multiple-paths ebgp config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
maximum-paths	Maximum number of	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	parallel paths to consider		Value range: 1 to 255	

openconfig-bgp/bgp/global/afi-safis/afi-safi/use-multiple-paths/ibgp

This table contains bgp global afi-safis afi-safi use-multiple-paths ibgp information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	ibgp
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/global/afi-safis/afi-safi/use-multiple-paths/ibgp/config table.

openconfig-bgp/bgp/global/afi-safis/afi-safi/use-multiple-paths/ibgp/config

This table contains bgp global afi-safis afi-safi use-multiple-paths ibgp config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
maximum-paths	Maximum number of parallel paths to consider	N/A	Unsigned integer. Value range: 1 to 255	N/A

openconfig-bgp/bgp/peer-groups

This table contains bgp peer-groups information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	Peer-groups
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Peer-group	Peer-group information	Sublist	N/A	For more information, see the bgp/peer-groups/peer-group table.

openconfig-bgp/bgp/peer-groups/peer-group

This table contains bgp peer-groups peer-group information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	peer-group
Table type	Multi-instance table
Row name	peer-group
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
peer-group-name	peer-group name	Index	String. Length: 1 to 47 characters.	N/A
config	Config information	Subtable	N/A	For more information, see the bgp/peer-groups/peer-group/config table.
timers	Timers information	Subtable	N/A	For more information, see the bgp/peer-groups/peer-group/timers table.

Column name	Column description	Column type	Data type and restrictions	Remarks
apply-policy	Apply-policy information	Subtable	N/A	For more information, see the bgp/peer-groups/peer-group/apply-policy table.
afi-safis	Afi-safis information	Subtable	N/A	For more information, see the bgp/peer-groups/peer-group/afi-safis table.

openconfig-bgp/bgp/peer-groups/peer-group/config

This table contains bgp peer-groups peer-group config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
peer-group-name	peer-group name	Index	String. Length: 1 to 47 characters.	N/A
peer-as	AS number of the peer	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
peer-type	Explicitly designate the peer or peer group as internal (iBGP) or external (eBGP)	N/A	Enumeration: <ul style="list-style-type: none"> 1—EXTERNAL. 2—INTERNAL. 	N/A
auth-password	MD5 authentication password	N/A	String. Length: 1 to 80 characters.	N/A
send-community	Specify which types of community should be sent to the neighbor or group. The default is to not send the community attribute	N/A	Enumeration: <ul style="list-style-type: none"> 1—STANDARD. 2—EXTENDED. 3—BOTH. 4—NONE. 	N/A
description	textual description	N/A	String. Length: 1 to 79 characters.	N/A

openconfig-bgp/bgp/peer-groups/peer-group/timers

This table contains bgp peer-groups peer-group timers information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	timers
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/peer-groups/peer-group/timers/config table.

openconfig-bgp/bgp/peer-groups/peer-group/timers/config

This table contains bgp peer-groups peer-group timers config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
minimum-advertisement-interval	Minimum time which must elapse between subsequent UPDATE messages relating to a common set of NLRI being transmitted to a peer	N/A	Unsigned integer. Value range: 0 to 600	N/A

openconfig-bgp/bgp/peer-groups/peer-group/apply-policy

This table contains bgp peer-groups peer-group apply-policy information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	apply-policy
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/peer-groups/peer-group/apply-policy/config table.

openconfig-bgp/bgp/peer-groups/peer-group/apply-policy/config

This table contains bgp peer-groups peer-group apply-policy config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
import-policy	Import Route-Policy for Neighbor	N/A	String. Length: 1 to 63 characters.	N/A
export-policy	Export Route-Policy for Neighbor	N/A	String. Length: 1 to 63 characters.	N/A

openconfig-bgp/bgp/peer-groups/peer-group/afi-safis

This table contains bgp peer-groups peer-group afi-safis information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	afi-safis
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi	afi-safi information	Sublist	N/A	For more information, see the bgp/peer-groups/peer-group/afi-safis/afi-safi table.

openconfig-bgp/bgp/peer-groups/peer-group/afi-safis/afi-safi

This table contains bgp peer-groups peer-group afi-safis afi-safi information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	afi-safi
Table type	Multi-instance table
Row name	afi-safi
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi-name	AFI,SAFI	Index	Enumeration: <ul style="list-style-type: none">1—IPV4_UNICAST.2—IPV6_UNICAST.3—L3VPN_IPV4_UNICAST4—L3VPN_IPV6_UNICAST5—L2VPN_VPLS	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 6—L2VPN_EVPN. 7—IPV4_LABELED_UNICAST 8—IPV6_LABELED_UNICAST 9—L3VPN_IPV4_MULTICAST 10—L3VPN_IPV6_MULTICAST 	
config	config information	Subtable	N/A	For more information, see the bgp/peer-groups/peer-group/afi-safis/afi-safi/config table.
apply-policy	apply-policy information	Subtable	N/A	For more information, see the bgp/peer-groups/peer-group/afi-safis/afi-safi/apply-policy table.

openconfig-bgp/bgp/peer-groups/peer-group/afi-safis/afi-safi/config

This table contains bgp peer-groups peer-group afi-safis afi-safi config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None

Support for row creation and deletion

Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi-name	AFI,SAFI	Index	Enumeration: <ul style="list-style-type: none"> • 1—IPV4_UNICAST. • 2—IPV6_UNICAST. • 3—L3VPN_IPV4_UNICAST • 4—L3VPN_IPV6_UNICAST • 5—L2VPN_VPLS • 6—L2VPN_EVPN. • 7—IPV4_LABELED_UNICAST • 8—IPV6_LABELED_UNICAST • 9—L3VPN_IPV4_MULTICAST • 10—L3VPN_IPV6_MULTICAST 	N/A
enabled	indicates whether the AFI,SAFI is enabled	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	N/A

openconfig-bgp/bgp/peer-groups/peer-group/afi-safis/afi-safi/apply-policy

This table contains bgp peer-groups peer-group afi-safis afi-safi apply-policy information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	apply-policy
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/peer-groups/peer-group/afi-safis/afi-safi/apply-policy/config table.

openconfig-bgp/bgp/peer-groups/peer-group/afi-safis/afi-safi/apply-policy/config

This table contains bgp peer-groups peer-group afi-safis afi-safi apply-policy config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
import-policy	Import Route-Policy for Neighbor	N/A	String. Length: 1 to 63 characters.	N/A
export-policy	Export Route-Policy for Neighbor	N/A	String. Length: 1 to 63 characters.	N/A

openconfig-bgp/bgp/neighbors

This table contains bgp neighbors information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	neighbors
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
neighbor	neighbor information	Sublist	N/A	For more information, see the bgp/neighbors/neighbor table.

openconfig-bgp/bgp/neighbors/neighbor

This table contains bgp neighbors neighbor information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
neighbor-address	Neighbor address	Index	String, IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
config	Config information	Subtable	N/A	For more information, see the bgp/neighbors/neighbor/config table.
timers	Timers information	Subtable	N/A	For more information, see the bgp/neighbors/neighbor/timers table.
apply-policy	Apply-policy information	Subtable	N/A	For more information, see the bgp/neighbors/neighbor/apply-policy table.
afi-safis	Afi-safis information	Subtable	N/A	For more information, see the bgp/neighbors/neighbor/afi-afis table.

openconfig-bgp/bgp/neighbors/neighbor/config

This table contains bgp neighbors neighbor config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
neighbor-address	Neighbor address	Index	String, IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
enabled	Whether the BGP peer is enabled	N/A	Boolean: <ul style="list-style-type: none">truefalse	N/A
peer-as	AS number of the peer	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A
peer-group	The peer-group with which this neighbor is associated	N/A	String. Length: 1 to 16 characters.	N/A
auth-password	MD5 authentication password	N/A	String. Length: 1 to 80 characters.	N/A
send-community	Specify which types of community should be sent to the neighbor or group. The default is to not send the community attribute	N/A	Enumeration: <ul style="list-style-type: none">1—STANDARD.2—EXTENDED.3—BOTH.4—NONE.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
description	textual description	N/A	String. Length: 1 to 79 characters.	N/A

openconfig-bgp/bgp/neighbors/neighbor/state

This table contains bgp neighbors neighbor state information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	state
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
neighbor-address	Neighbor address	Index	String,IPv4 address string or IPv6 address string.	Example: 1.1.1.1 or 1::1.
enabled	Whether the BGP peer is enabled	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
peer-as	AS number of the peer	N/A	Unsigned integer. Value range: 1 to 4294967295	N/A
session-state	Operational state of the BGP peer	N/A	Enumeration: <ul style="list-style-type: none"> 1—IDLE 2—CONNECT 3—ACTIVE 4—OPENSENT 5—OPENCONFIRM 6—ESTABLISHED 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
peer-group	The peer-group with which this neighbor is associated	N/A	String. Length: 1 to 16 characters.	N/A
auth-password	MD5 authentication password	N/A	String. Length: 1 to 80 characters.	N/A
send-community	Specify which types of community should be sent to the neighbor or group. The default is to not send the community attribute	N/A	Enumeration: <ul style="list-style-type: none"> • 1—STANDARD. • 2—EXTENDED. • 3—BOTH. • 4—NONE. 	N/A
description	textual description	N/A	String. Length: 1 to 79 characters.	N/A

openconfig-bgp/bgp/neighbors/neighbor/timers

This table contains bgp neighbors neighbor timers information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	timers
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the

Column name	Column description	Column type	Data type and restrictions	Remarks
				bgp/neighbors/neighbor/timers/config table.

openconfig-bgp/bgp/neighbors/neighbor/timers/config

This table contains bgp neighbors neighbor timers config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
minimum-advertisement-interval	Minimum time which must elapse between subsequent UPDATE messages relating to a common set of NLRI being transmitted to a peer	N/A	Unsigned integer. Value range: 0 to 600	N/A

openconfig-bgp/bgp/neighbors/neighbor/apply-policy

This table contains bgp neighbors neighbor apply-policy information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	apply-policy
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/neighbors/neighbor/apply-policy/config table.

openconfig-bgp/bgp/neighbors/neighbor/apply-policy/config

This table contains bgp neighbors neighbor apply-policy config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
import-policy	Import Route-Policy for Neighbor	N/A	String. Length: 1 to 63 characters.	N/A
export-policy	Export Route-Policy for Neighbor	N/A	String. Length: 1 to 63 characters.	N/A

openconfig-bgp/bgp/neighbors/neighbor/afi-safis

This table contains bgp neighbors neighbor afi-safis information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	afi-safis
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi	afi-safi information	Sublist	N/A	For more information, see the bgp/neighbors/neighbor/afi-safis/afi-safi table.

openconfig-bgp/bgp/neighbors/neighbor/afi-safis/afi-safi

This table contains bgp neighbors neighbor afi-safis afi-safi information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	afi-safi
Table type	Multi-instance table
Row name	afi-safi
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi-name	AFI,SAFI	Index	Enumeration: <ul style="list-style-type: none">1—IPV4_UNICAST.2—IPV6_UNICAST.3—L3VPN_IPV4_UNICAST4—L3VPN_IPV6_UNICAST5—L2VPN_VPLS	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 6—L2VPN_EVPN. 7—IPV4_LABELED_UNICAST 8—IPV6_LABELED_UNICAST 9—L3VPN_IPV4_MULTICAST 10—L3VPN_IPV6_MULTICAST 	
config	config information	Subtable	N/A	For more information, see the bgp/neighbors/neighbor/afi-safis/afi-safi/config table.
apply-policy	apply-policy information	Subtable	N/A	For more information, see the bgp/neighbors/neighbor/afi-safis/afi-safi/ apply-policy table.

openconfig-bgp/bgp/neighbors/neighbor/afi-safis/afi-safi/config

This table contains bgp neighbors neighbor afi-safis afi-safi config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
afi-safi-name	AFI,SAFI	Index	Enumeration: <ul style="list-style-type: none"> • 1—IPV4_UNICAST. • 2—IPV6_UNICAST. • 3—L3VPN_IPV4_UNICAST • 4—L3VPN_IPV6_UNICAST • 5—L2VPN_VPLS • 6—L2VPN_EVPN. • 7—IPV4_LABELED_UNICAST • 8—IPV6_LABELED_UNICAST • 9—L3VPN_IPV4_MULTICAST • 10—L3VPN_IPV6_MULTICAST 	N/A
enabled	indicates whether the AFI,SAFI is enabled	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	N/A

openconfig-bgp/bgp/neighbors/neighbor/afi-safis/afi-safi/apply-policy

This table contains bgp neighbors neighbor afi-safis afi-safi apply-policy information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	apply-policy

Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	config information	Subtable	N/A	For more information, see the bgp/neighbors/neighbor/afi-safis/afi-safi/apply-policy/config table.

openconfig-bgp/bgp/neighbors/neighbor/afi-safis/afi-safi/apply-policy/config

This table contains bgp neighbors neighbor afi-safis afi-safi apply-policy config information.

XML structure

Please refer to the XML structure of openconfig-bgp/bgp.

Table description

Item	Description
Feature name	openconfig-bgp
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
import-policy	Import Route-Policy for Neighbor	N/A	String. Length: 1 to 63 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
export-policy	Export Route-Policy for Neighbor	N/A	String. Length: 1 to 63 characters.	N/A

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XML structure	3
Table description	3
Columns	3
openconfig-relay-agent/relay-agent/dhcp/interface/config	3
XML structure	4
Table description	4
Columns	4

DHCP

openconfig-relay-agent/relay-agent/dhcp

This table contains DHCP information.

XML structure

```
<openconfig-relay-agent xmlns="http://openconfig.net/yang/relay-agent">
  <relay-agent>
    <dhcp>
      <config>
        <enable-relay-agent></enable-relay-agent>
      </config>
      <interfaces>
        <interface>
          <id></id>
          <config>
            <id></id>
            <enable></enable>
            <helper-address></helper-address>
          </config>
        </interface>
      </interfaces>
    </dhcp>
  </relay-agent>
</openconfig-relay-agent>
```

Table description

Item	Description
Feature name	DHCP
Table name	dhcp
Table type	Single-instance table
Row name	dhcp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration information	Subtable	N/A	For more information, see the dhcp/config table.
interfaces	Interface information	Subtable	N/A	For more information, see the dhcp/interfaces table.

openconfig-relay-agent/relay-agent/dhcp/config

This table contains DHCP configuration information.

XML structure

Please refer to the XML structure of openconfig-relay-agent/relay-agent/dhcp.

Table description

Item	Description
Feature name	DHCP
Table name	config
Table type	Single-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
enable-relay-agent	Enabling status of DHCP relay-agent on all interfaces	N/A	Boolean: <ul style="list-style-type: none">● true—Enabled.● false—Disabled.	N/A

openconfig-relay-agent/relay-agent/dhcp/interface

This table contains DHCP interface information.

XML structure

Please refer to the XML structure of openconfig-relay-agent/relay-agent/dhcp.

Table description

Item	Description
Feature name	DHCP
Table name	interface
Table type	Single-instance table
Row name	interface
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
id	Reference to the interface list key	Index	String: Length: 1 to 46 characters.	N/A
config	Configuration information	Subtable	N/A	For more information, see the dhcp/interfaces /config table.

openconfig-relay-agent/relay-agent/dhcp/interface/config

This table contains DHCP interface config information

XML structure

Please refer to the XML structure of openconfig-relay-agent/relay-agent/dhcp.

Table description

Item	Description
Feature name	DHCP
Table name	config
Table type	Single-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
id	Name of the interface on which relay agent is active	Index	String: Length: 1 to 46 characters.	N/A
enable	Enabling status of the relay agent on the referenced interface	N/A	Boolean: <ul style="list-style-type: none">• true—Enabled.• false—Disabled.	N/A
helper-addresses	List of the IPv4 addresses of DHCP servers to which the relay agent should forward DHCPv4 requests.	N/A	String: Length: 1 to 42 characters.	This command only supports the IPv4 address.

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openconfig-if-ip/ipv6/addresses/address	5
XML structure	5
Table description	5
Columns	6
openconfig-if-ip/ipv6/addresses/address/config	6
XML structure	6
Table description	6
Columns	6

openconfig-if-ip

openconfig-if-ip/ipv4

This table contains IPv4 address family configuration for interfaces.

XML structure

```
<openconfig-if-ip>
  <ipv4>
    <addresses>
      <address>
        <ip></ip>
        <config>
          <ip></ip>
          <prefix-length></prefix-length>
        </config>
      </address>
    </addresses>
  </ipv4>
</openconfig-if-ip>
```

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	Ipv4
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
addresses	Enclose container for address list	Subtable	N/A	For more information, see the ipv4/addresses table.

openconfig-if-ip/ipv4/addresses

This table contains information about enclosing container for address list.

XML structure

Please refer to the XML structure of openconfig-if-ip/ipv4.

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	addresses
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
address	List of configured IPv4 addresses on the interface	sublist	N/A.	For more information, see the ipv4/addresses/address table.

openconfig-if-ip/ipv4/addresses/address

This table contains IPv4 addresses config information.

XML structure

Please refer to the XML structure of openconfig-if-ip/ipv4/addresses.

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	address
Table type	Multi-instance table
Row name	N/A

Item	Description
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
ip	IPv4 address	index	String, dotted decimal	N/A
config	IPv4 address configuration information	Subtable	N/A	For more information, see the ipv4/addresses/address/config table.

openconfig-if-ipv4/addresses/address/config

This table contains IPv4 address configuration information.

XML structure

Please refer to the XML structure of [openconfig-if-ipv4/addresses/address](#).

Table description

Item	Description
Feature name	openconfig-if-ipv4
Table name	config
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
ip	IPv4 address of the interface	index	String, dotted decimal.	N/A
prefix-length	Length of the subnet prefix	No	Unsigned integer. Value range: 1 to 32	N/A

openconfig-if-ip/ipv6

This table contains IPv6 address family configuration for interfaces.

XML structure

```
<openconfig-if-ip>
  <ipv6>
    <addresses>
      <address>
        <ip></ip>
        <config>
          <ip></ip>
          <prefix-length></prefix-length>
        </config>
      </address>
    </addresses>
  </ipv6>
</openconfig-if-ip>
```

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	Ipv6
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
addresses	Enclose container for address list	Subtable	N/A	For more information, see the ipv6/addresses table.

openconfig-if-ip/ipv6/addresses

This table contains information about enclosing container for address list.

XML structure

Please refer to the XML structure of openconfig-if-ip/ipv6.

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	addresses
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
address	List of configured IPv6 addresses on the interface	sublist	N/A.	For more information, see the ipv6/addresses/address table.

openconfig-if-ip/ipv6/addresses/address

This table contains IPv6 addresses config information.

XML structure

Please refer to the XML structure of openconfig-if-ip/ipv6/addresses.

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	address
Table type	Multi-instance table
Row name	N/A
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
ip	IPv6 address	index	String, dotted decimal	N/A
config	IPv6 address configuration information	Subtable	N/A	For more information, see the ipv6/addresses/address/config table.

openconfig-if-ip/ipv6/addresses/address/config

This table contains IPv6 address configuration information.

XML structure

Please refer to the XML structure of [openconfig-if-ip/ipv6/addresses/address](#).

Table description

Item	Description
Feature name	openconfig-if-ip
Table name	config
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
ip	IPv6 address of the interface	index	String, dotted decimal.	N/A
prefix-length	Length of the subnet prefix	No	Unsigned integer. Value range: 1 to 128	N/A

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interfaces/interface/subinterfaces/subinterface	5
XML structure	5
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interfaces/interface/aggregation	10
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openconfig-interfaces

interfaces

This table contains interfaces information.

XML structure

```
<interfaces>
  <interface>
    <name></name>
    <config>
      <name></name>
      <type></type>
      <mtu></mtu>
      <description></description>
      <enabled></enabled>
    </config>
    <subinterfaces>
      <subinterface>
        <index></index>
        <config>
          <index></index>
          <name></name>
          <description></description>
          <enabled></enabled>
        </config>
        <ipv4></ipv4>
        <ipv6></ipv6>
      </subinterface>
    </subinterfaces>
    <ethernet>
      <switched-vlan>
        <config>
          <interface-mode></interface-mode>
          <native-vlan></native-vlan>
          <access-vlan></access-vlan>
          <trunk-vlans></trunk-vlans>
        </config>
      </switched-vlan>
      <config>
        <aggregate-id></aggregate-id>
      </config>
    </ethernet>
    <routed-vlan>
      <ipv4></ipv4>
```



```

        <ipv6></ipv6>
    </routed-vlan>
    <aggregation>
        <config></config>
        <swtich-vlan></swtich-vlan>
    </aggregation>
</interface>
</interfaces>

```

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	interfaces
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
interface	Interface table	Sublist	N/A	For more information, see the interfaces/intreface table.

interfaces/interface

This table contains interfaces/interface information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	openconfig-interfaces
Table name	interface
Table type	Multi-instance table
Row name	interface

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Full name of an interface	Index	String. Length: 2 to 47 characters.	Read-write.
config	Configuration item of interface	Subtable	N/A	For more information, see the interfaces/intreface/config table.
subinterfaces	Subinterfaces information of an interface	Sublist	N/A	For more information, see the interfaces/intreface/subintefaces table.
ethernet	Ethernet of interface, ref-table to openconfig-vlan	Subtable	N/A	For more information, see the interfaces/intreface/ethernet table.

interfaces/interface/config

This table contains interfaces/interface/config information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	config
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
name	Full name of an interface	Index	String. Length: 2 to 47 characters.	Reference to: interfaces/interface/name.
type	Interface type	N/A	Unsigned integer.	Read-write. Additional values for ifType are assigned by the Internet Assigned Numbers Authority (IANA), through updating the syntax of the IANA ifType textual convention.
mtu	Configured MTU of an interface	N/A	Unsigned integer.	Read-write. Applicable to only Layer 3 interfaces.
description	Interface description	N/A	String. Length: 1 to 255 characters. Default: <i>interface-name</i> Interface .	Read-write.
enabled	Enabling status of an interface	N/A	Boolean <ul style="list-style-type: none"> 0—Disabled 1—Enabled 	Read-write.

interfaces/interface/subinterfaces

This table contains interfaces/interface/subinterfaces information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	subinterfaces
Table type	Multi-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
subinterface	Subinterface information table	sublist	N/A	For more information, see the interfaces/intreface/subinterfaces/subinterface table.
ipv4	Portlayer information table	subtable	N/A	For more information, see the interfaces/intreface/subinterfaces/ip v4 table.

interfaces/interface/subinterfaces/subinterface

This table contains interfaces/interface/subinterfaces/subinterface information.

XML structure

Please refer to the XML structure of interfaces.

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Subinterface number	index	Unsigned integer Value range: 1 to 4094.	Read-write.
config	Configuration item of interface	subtable	N/A	For more information, see the interfaces/intreface/subinte

Column name	Column description	Column type	Data type and restrictions	Remarks
				rfaces/ipv4/config table.
ipv4	IPv4 address family information table	subtable	N/A	Reference the table openconfig-if-ip/ipv4.
ipv6	IPv6 address family information table	subtable	N/A	Reference the table openconfig-if-ip/ipv6.

interfaces/interface/subinterfaces/subinterface/config

This table contains interfaces/interface/subinterfaces/subinterface/config information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	config
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
index	Subinterface number	index	Unsigned integer Value range: 1 to 4094.	Refer to interface/subinterfaces/subinterface/index.
name	Full name of an subinterface	N/A	String. Length: 2 to 47 characters.	Read-write. For more information, see the ipv4 table.
description	Subinterface description	N/A	String. Length: 1 to 255 characters. Default: <i>interface-name</i> Interface.	Read-write.

Column name	Column description	Column type	Data type and restrictions	Remarks
enabled	Enabling status of subinterface	N/A	Boolean <ul style="list-style-type: none"> 0—Disabled 1—Enabled 	Read-write.

openconfig-interfaces/interfaces/interface/subinterfaces/ipv4

This table contains openconfig-interfaces/interfaces/interface/subinterfaces/ipv4 information.

XML structure

Please refer to the XML structure of openconfig-interfaces/interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	Ipv4
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
enabled	Portlayer of an interface	N/A	Boolean <ul style="list-style-type: none"> 0—Layer 2 1—Layer 3 	Read-write. Only applicable to Ethernet interfaces.

interfaces/interface/ethernet

This table contains interfaces/interface/ethernet information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	ethernet
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
switched-vlan	VLAN type of an interface	N/A	N/A	Reference the table openconfig-vlan/switched-vlan.
config	Configuration item of interface	N/A	N/A	N/A.

interfaces/interface/ethernet/switched-vlan

This table contains interfaces/interface/ethernet/switched-vlan information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	switched-vlan
Table type	Single-instance table
Row name	N/A
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
config	Configured the VLAN type of an interface	subtable	N/A	See the openconfig-vlan/s witched-vlan table.

interfaces/interface/ethernet/config

This table contains interfaces/interface/ethernet/config information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	N/A
Support for row creation and deletion	NO

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
aggregate-id	Aggregation group ID	N/A	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> 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.

interfaces/interface/routed-vlan

This table contains interfaces/interface/routed-vlan information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	routed-vlan
Table type	Multi-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
ipv4	IPv4 address family information table	subtable	<ul style="list-style-type: none">N/A	Reference the table openconfig-if-ip/ipv4.
ipv6	IPv6 address family information table	subtable	<ul style="list-style-type: none">N/A	Reference the table openconfig-if-ip/ipv6.

interfaces/interface/aggregation

This table contains interfaces/interface/aggregation information.

XML structure

Please refer to the XML structure of interfaces.

Table description

Item	Description
Feature name	Openconfig-interfaces
Table name	aggregation
Table type	Multi-instance table
Row name	N/A

Item	Description
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Aggregation config	subtable	<ul style="list-style-type: none"> N/A 	Reference the table openconfig-if-aggregate /aggregation.
switch-vlan	VLAN type of an interface	N/A	<ul style="list-style-type: none"> N/A 	Reference the table openconfig-vlan/switched-vlan.

Contents

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Columns	1
openconfig-if-aggregate/aggregation/config	1
XML structure	2
Table description	2
Columns	2

openconfig-if-aggregate

openconfig-if-aggregate/aggregation

This table contains openconfig-if-aggregate/aggregation information.

XML structure

```
<openconfig-if-aggregate>
  <aggregation>
    <config>
      <lag-type></lag-type>
    </config>
    <swtich-vlan>
      <config></config>
    </swtich-vlan>
  </aggregation>
</openconfig-if-aggregate>
```

Table description

Item	Description
Feature name	openconfig-if-aggregate
Table name	aggregation
Table type	Single-instance table
Row name	N/A
Restrictions	No
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration item of interface	N/A	N/A	N/A
swtich-vlan	VLAN type of an interface	N/A	N/A	Reference the table openconfig-vlan/switched-vlan.

openconfig-if-aggregate/aggregation/config

This table contains openconfig-if-aggregate/aggregation information/config information.

XML structure

See the XML structure of openconfig-if-aggregate/aggregation.

Table description

Item	Description
Feature name	openconfig-if-aggregate
Table name	config
Table type	Single-instance table
Row name	None
Restrictions	No
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
lag-type	Interface table	String	String. Options include: <ul style="list-style-type: none">• STATIC.• LACP.	N/A

Contents

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XML structure	3
Table description	3
Columns	3
openconfig-network-instance/network-instances/network-instance/config	4
XML structure	4
Table description	4
Columns	4
openconfig-network-instance/network-instances/network-instance/table-connections	4
XML structure	4
Table description	5
Columns	5
openconfig-network-instance/network-instances/network-instance/table-connections/table-connection	5
XML structure	5
Table description	5
Columns	6
openconfig-network-instance/network-instances/network-instance/table-connections/table-connection/config	6
XML structure	7
Table description	7
Columns	7
openconfig-network-instance/network-instances/network-instance/interfaces	8
XML structure	8
Table description	8
Columns	8
openconfig-network-instance/network-instances/network-instance/interfaces/interface	8
XML structure	8
Table description	9
Columns	9
openconfig-network-instance/network-instances/network-instance/interfaces/interface/config	9
XML structure	9
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Columns	10
openconfig-network-instance/network-instances/network-instance/protocols	10
XML structure	10
Table description	10
Columns	10
openconfig-network-instance/network-instances/network-instance/protocols/protocol	11
XML structure	11
Table description	11
Columns	11
openconfig-network-instance/network-instances/network-instance/protocols/protocol/config	12
XML structure	12
Table description	12
Columns	12
openconfig-network-instance/network-instances/network-instance/protocols/protocol/local-aggregates	13
XML structure	13
Table description	13
Columns	13
openconfig-network-instance/network-instances/network-instance/protocols/protocol/local-aggregates/aggreg	
ate	14
XML structure	14
Table description	14

Columns	14
openconfig-network-instance/network-instances/network-instance/protocols/protocol/local-aggregates/aggreg	
ate/config	15
XML structure	15
Table description	15
Columns	15

openconfig-network-instance

openconfig-network-instance/network-instances

This table contains network instances information.

XML structure

```
<openconfig-network-instance>
  <network-instances>
    <network-instance>
      <name></name>
      <config>
        <name></name>
        <route-distinguisher></route-distinguisher>
      </config>
      <table-connections>
        <table-connection>
          <src-protocol></src-protocol>
          <dst-protocol></dst-protocol>
          <address-family></address-family>
          <config>
            <src-protocol></src-protocol>
            <dst-protocol></dst-protocol>
            <address-family></address-family>
            <import-policy></import-policy>
          </config>
        </table-connection>
      </table-connections>
      <interfaces>
        <interface>
          <id></id>
          <config>
            <id></id>
            <interface></interface>
            <subinterface></subinterface>
          </config>
        </interface>
      </interfaces>
      <protocols>
        <protocol>
          <identifier></identifier>
          <name></name>
          <config>
            <identifier></identifier>
            <name></name>
          </config>
        </protocol>
      </protocols>
    </network-instance>
  </network-instances>
</openconfig-network-instance>
```



```

        <enabled></enabled>
        <default-metric></default-metric>
    </config>
    <local-aggregates>
        <aggregate>
            <prefix></prefix>
            <config>
                <prefix></prefix>
            </config>
        </aggregate>
    </local-aggregates>
</protocol>
</protocols>
</network-instance>
</network-instances>
</openconfig-network-instance>

```

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	network-instances
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
network-instance	Network instance information	Subtable	N/A	For more information, see the network-instances/network-instance table.

openconfig-network-instance/network-instances/network-instance

This table contains network instance information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	network-instance
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Network instance name	Index	String. Length: 1 to 31 characters.	N/A
config	Configuration information	Subtable	N/A	For more information, see the network-instances/network-instance/config table.
table-connections	Table-connections information	Subtable	N/A	For more information, see the network-instances/network-instance/table-connections table.
interfaces	Interfaces information	Subtable	N/A	For more information, see the network-instances/network-instance/interfaces table.
protocols	Protocols information	Subtable	N/A	For more information, see the network-instances/network-instance/protocols table.

openconfig-network-instance/network-instances/ network-instance/config

This table contains network instance configuration information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Network instance name	Index	String. Length: 1 to 31 characters.	N/A
route-distinguisher	Route distinguisher information	N/A	String. Length: 3 to 21 characters.	Example: 1:1

openconfig-network-instance/network-instances/ network-instance/table-connections

This table contains table-connections information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	table-connections
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
table-connection	Table-connection information	Sublist	N/A	For more information, see the network-instances/network-instance/table-connections/table-connection table.

openconfig-network-instance/network-instances/network-instance/table-connections/table-connection

This table contains table-connection information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	table-connection
Table type	Single-instance table
Row name	table-connection
Restrictions	None

Support for row creation and deletion

No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
src-protocol	Source protocol name	Index	String. Length: 1 to 20 characters. Enumeration: <ul style="list-style-type: none"> • BGP • ISIS • OSPF • OSPF3 • STATIC • DIRECTLY_CONNECTED • LOCAL_AGGREGATE 	Example: BGP.
dst-protocol	Destination protocol name	Index	String. Length: 1 to 20 characters. Enumeration: <ul style="list-style-type: none"> • BGP • ISIS • OSPF • OSPF3 • STATIC • DIRECTLY_CONNECTED • LOCAL_AGGREGATE 	Example: BGP.
address-family	Address family name	Index	String. Length: 1 to 10 characters.	Example: IPV4
config	Configuration information	Subtable	N/A	For more information, see the network-instance/network-instance/table-connections/table-connection/config table.

openconfig-network-instance/network-instances/
network-instance/table-connections/table-connection/
config

This table contains table-connection configuration information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
src-protocol	Source protocol name	Index	String. Length: 1 to 20 characters. Enumeration: <ul style="list-style-type: none">• BGP• ISIS• OSPF• OSPF3• STATIC• DIRECTLY_CONNECTED• LOCAL_AGGREGATE	Example: BGP.
dst-protocol	Destination protocol name	Index	String. Length: 1 to 20 characters. Enumeration: <ul style="list-style-type: none">• BGP• ISIS• OSPF• OSPF3• STATIC• DIRECTLY_CONNECTED• LOCAL_AGGREGATE	Example: BGP.
address-family	Address family name	Index	String. Length: 1 to 10 characters.	Example: IPV4
import-policy	Import policy name	N/A	String. Length: 1 to 63 characters.	Example: aaa

openconfig-network-instance/network-instances/ network-instance/interfaces

This table contains interfaces information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	interfaces
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface	Interface information	Sublist	N/A	For more information, see the network-instances/network-instance/interfaces/interface table.

openconfig-network-instance/network-instances/ network-instance/interfaces/interface

This table contains interface information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	interface
Table type	Single-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
id	ID name	Index	String. Length: 1 to 31 characters. Same as interface name	Example: LoopBack2, L2.
config	Configuration information	Subtable	N/A	For more information, see the network-instances/network-instance/interfaces/interface/config table.

openconfig-network-instance/network-instances/network-instance/interfaces/interface/config

This table contains interface configuration information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
id	ID name	Index	String. Length: 1 to 31 characters. Same as interface name	Example: LoopBack2, L2.
interface	Interface name	N/A	String. Length: 1 to 31 characters.	N/A
subinterface	Subinterface number	N/A	Integer. Range: 1 to 4094.	N/A

openconfig-network-instance/network-instances/ network-instance/protocols

This table contains protocols nformation.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	protocols
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
protocol	Protocol information.	Sublist	N/A	For more information, see the network-instances/network-instance/protocols/proto

Column name	Column description	Column type	Data type and restrictions	Remarks
				col table.

openconfig-network-instance/network-instances/network-instance/protocols/protocol

This table contains protocol information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	protocol
Table type	Single-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
identifier	Protocol identifier name	Index	String. Length: 1 to 20characters. Enumeration: <ul style="list-style-type: none"> • BGP • ISIS • OSPF • OSPF3 • STATIC • DIRECTLY_CONNECTED • LOCAL_AGGREGATE 	Example: BGP
name	Protocol instance name	Index	String. Length: 1 to 31 characters.	Example: 1, aaa, and default.
config	Configuration information	Subtable	N/A	For more information, see the

Column name	Column description	Column type	Data type and restrictions	Remarks
				network-instances/network-instance/protocols/protocol /config table.
local-aggregates	Local-aggregates information	Subtable	N/A	For more information, see the network-instances/network-instance/protocols/protocol/local-aggregates table.

openconfig-network-instance/network-instances/network-instance/protocols/protocol/config

This table contains protocol configuration information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
identifier	Protocol identifier	Index	String. Length: 1 to 20characters. Enumeration: <ul style="list-style-type: none"> • BGP • ISIS • OSPF • OSPF3 • STATIC 	Example:BGP

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> DIRECTLY_CONNECTED LOCAL_AGGREGATE 	
name	Protocol instance name	Index	String. Length: 1 to 31 characters.	Example:1, aaa, default
enabled	Whether the local protocol instance is enabled	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
default-metric	Default metric value	N/A	Unsigned Integer32. 0-65535	N/A

openconfig-network-instance/network-instances/network-instance/protocols/protocol/local-aggregates

This table contains local-aggregates information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	local-aggregates
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
aggregate	Aggregate information	Sublist	N/A	For more information, see the network-instances/network-instances

Column name	Column description	Column type	Data type and restrictions	Remarks
				e/protocols/protocol/local-aggregates/aggregate table.

openconfig-network-instance/network-instances/network-instance/protocols/protocol/local-aggregates/aggregate

This table contains aggregate information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	aggregate
Table type	Single-instance table
Row name	aggregate
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix	Prefix name	Index	IPv4 prefix: String, dotted decimal notation. Prefix length. Length: 1-18	IPv4 example: 1.1.1.1/24.
config	Configuration information	Subtable	N/A	For more information, see the network-instances/network-instance/protocols/protocol/local-aggregates/aggregate/config table.

openconfig-network-instance/network-instances/ network-instance/protocols/protocol/local-aggreg ates/aggregate/config

This table contains aggregate configuration information.

XML structure

Please refer to the XML structure of openconfig-network-instance/network-instances.

Table description

Item	Description
Feature name	openconfig-network-instance
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix	Prefix name	Index	IPv4 prefix: String, dotted decimal notation. Prefix length. Length: 1-18.	IPv4 example: 1.1.1.1/24.

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NTP

openconfig-system/system/ntp

This table contains NTP information.

XML structure

```
<openconfig-system xmlns="http://openconfig.net/yang/system">
  <system>
    <ntp>
      <config>
        <enabled></enabled>
        <ntp-source-address></ntp-source-address>
      </config>
      <servers>
        <server>
          <address></address>
          <config>
            <address></address>
            <port></port>
            <version></version>
            <association-type></association-type>
            <prefer></prefer>
          </config>
        </server>
      </servers>
    </ntp>
  </system>
</openconfig-system>
```

Table description

Item	Description
Feature name	NTP
Table name	ntp
Table type	Single-instance table
Row name	ntp
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration information	Subtable	N/A	For more information, see the ntp/config table.
servers	Server information	Subtable	N/A	For more information, see the ntp/servers table.

openconfig-system/system/ntp/config

This table contains NTP configuration information.

XML structure

Please refer to the XML structure of openconfig-system/system/ntp.

Table description

Item	Description
Feature name	NTP
Table name	config
Table type	Single-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
enabled	Whether NTP is enabled	N/A	Boolean: <ul style="list-style-type: none">true—Enabled.false—Disabled.	N/A

timers	Source IPv4 address for NTP packets	N/A	String: Length: 1 to 46 characters.	Only IPv4 addresses are supported.
--------	-------------------------------------	-----	----------------------------------------	------------------------------------

openconfig-system/system/ntp/servers/server

This table contains NTP server information.

XML structure

Please refer to the XML structure of openconfig-system/system/ntp.

Table description

Item	Description
Feature name	NTP
Table name	server
Table type	Single-instance table
Row name	server
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
address	Address of the NTP server	Index	String: Length: 1 to 46 characters.	Only IPv4 addresses are supported.
config	Configuration information of the NTP server	Subtable	N/A	For more information, see the ntp/servers/server/config table.

openconfig-system/system/ntp/servers/server/config

This table contains NTP server configuration information.

XML structure

Please refer to the XML structure of `openconfig-system/system/ntp`.

Table description

Item	Description
Feature name	NTP
Table name	config
Table type	Single-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
address	Address of the NTP server	Index	String: Length: 1 to 46 characters.	Only IPv4 addresses are supported.
port	Port number of the NTP server	N/A	Unsigned integer	N/A
version	Version number to put into outgoing NTP packets	N/A	Unsigned integer. Value range: 1 to 4	N/A
association-type	Association type for the NTP server	N/A	Unsigned integer. Value: 3.	N/A
prefer	Whether this server should be preferred	N/A	Boolean: <ul style="list-style-type: none">true—Yes.false—No.	N/A

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XML structure	11
Table description	11
Columns	11

OSPFv2

openconfig-ospfv2

This table contains OSPFv2 information.

XML structure

```
<ospfv2 xmlns="http://openconfig.net/yang/ospfv2">
  <global>
    <config>
      <router-id></router-id>
    </config>
    <timers>
      <spf>
        <config>
          <initial-delay></initial-delay>
          <maximum-delay></maximum-delay>
        </config>
      </spf>
      <lsa-generation>
        <config>
          <initial-delay></initial-delay>
          <maximum-delay></maximum-delay>
        </config>
      </lsa-generation>
    </timers>
  </global>
  <areas>
    <area>
      <identifier></identifier>
      <config>
        <identifier></identifier>
      </config>
      <interfaces>
        <interface>
          <id></id>
          <config>
```



```

        <id></id>

        <network-type></network-type>

        <priority></priority>

        <metric></metric>

        <passive></passive>
    </config>

    <timers>
        <config>
            <dead-interval></dead-interval>
            <hello-interval></hello-interval>
        </config>
    </timers>
</interface>
</interfaces>

</area>
</areas>
</ospfv2>

```

Table description

Item	Description
Feature name	OSPFv2
Table name	ospfv2
Table type	Multi-instance table
Row name	ospfv2
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
global	Global information	Subtable	N/A	For more information, see the ospfv2/global table.
areas	Area information	Subtable	N/A	For more information, see the ospfv2/areas.

openconfig-ospfv2/ospfv2/global

This table contains global OSPFv2 information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2
Table name	global
Table type	Multi-instance table
Row name	global
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration information	Subtable	N/A	For more information, see the ospfv2/global/config.
timers	Timer information	Subtable	N/A	For more information, see the ospfv2/global/timers.

openconfig-ospfv2/ospfv2/global/config

This table contains global OSPFv2 configuration information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
router-id	A 32-bit number represented in dotted decimal notation assigned to each router running the OSPFv2 protocol.	N/A	String: Length: 1 to 42 characters.	N/A

openconfig-ospfv2/ospfv2/global/timers

This table contains global OSPFv2 timer information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
spf	SPF information	Subtable	N/A	For more information, see the ospfv2/global/timers/spf.
lsa-generation	LSA generation information	Subtable	N/A	For more information, see the ospfv2/global/timers/lsa-generation.

openconfig-ospfv2/ospfv2/global/timers/spf/config

This table contains OSPFv2 SPF timer configuration information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2
Table name	config
Table type	Multi-instance table
Row name	config

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
initial-delay	The value specifies the time between a change in topology being detected and the first run of the SPF algorithm.	N/A	Unsigned integer: Value range: 1 to 60.	N/A
maximum-delay	The value of this leaf specifies the maximum delay between a topology change being detected and running of the SPF algorithm.	N/A	Unsigned integer: Value range: 10 to 60000.	N/A

openconfig-ospfv2/ospfv2/global/timers/lsa-generation/config

This table contains OSPFv2 LSA-generation timer configuration information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2

Table description

Item	Description
Feature name	OSPFv2
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
initial-delay	The value specifies the time between the first time an LSA is generated and advertised and the subsequent generation of that LSA.	N/A	Unsigned integer: Value range: 1 to 60	N/A
maximum-delay	The value specifies the maximum time between the generation of an LSA and the subsequent re-generation of that LSA.	N/A	Unsigned integer: Value range: 10 to 60000	N/A

openconfig-ospfv2/ospfv2/areas/area

This table contains OSPFv2 area information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2
Table name	area
Table type	Multi-instance table
Row name	area
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
identifier	An identifier for the OSPFv2 area, represented as either a 32-bit unsigned integer or a dotted-quad.	Index	String: Length: 1 to 42 characters	For example: 32 or 1.1.1.1
interfaces	Interface information	Subtable	N/A	For more information, see the ospfv2/areas/area/interfaces.

openconfig-ospfv2/ospfv2/areas/area/config

This table contains OSPFv2 area configuration information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
identifier	An identifier for the OSPFv2 area,	Index	String: Length: 1 to 42 characters	N/A

	represented as either a 32-bit unsigned integer or a dotted-quad.			
--	-------------------------------------------------------------------	--	--	--

openconfig-ospfv2/ospfv2/areas/area/interfaces/interface

This table contains OSPFv2 area interface information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2
Table name	interface
Table type	Multi-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
id	A pointer to the identifier for the interface name	Index	String. Length: 1 to 42characters.	N/A
config	Configuration information	Subtable	N/A	For more information, see the ospfv2/areas/area/interfaces/interface/config .
timers	Timer information	Subtable	N/A	For more information, see the ospfv2/areas/area/

				interfaces/ interface/timers.
--	--	--	--	----------------------------------

openconfig-ospfv2/ospfv2/areas/area/interfaces/interface/config

This table contains OSPFv2 area interface configuration information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
id	An operator-specified string used to uniquely identify this interface	Index	String: Length: 1 to 42 characters	N/A
network-type	The type of network that OSPFv2 must use for the specified interface.	N/A	Enumeration: <ul style="list-style-type: none"> 1—broadcast 2—NBMA. 3—P2P. 4—P2MP. 5—P2MP unicast 	N/A
priority	The local system's priority to become the designated router	N/A	Unsigned integer: Value range: 1 to 255	N/A

metric	The metric for the interface	N/A	Unsigned integer: Value range: 0 to 65535 for loopback interfaces; 1 to 65535 for other types of interfaces.	N/A
passive	When this leaf is set to true, the interface must be advertised within the OSPFv2 area but OSPFv2 adjacencies must not be established over the interface.	N/A	Boolean: <ul style="list-style-type: none"> true—The interface must be advertised within the OSPFv2 area. false—The interface must not be advertised within the OSPFv2 area. 	N/A

openconfig-ospfv2/ospfv2/areas/area/interfaces/interface/timers/config

This table contains OSPFv2 area interface timer configuration information.

XML structure

Please refer to the XML structure of openconfig-ospfv2/ospfv2.

Table description

Item	Description
Feature name	OSPFv2
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
dead-interval	The number of seconds that the local system must let elapse before declaring	N/A	Unsigned integer: Value range: 1 to 2147483647	N/A

	a silent router down			
hello-interval	The number of seconds that the local system waits between the transmissions of subsequent Hello packets.	N/A	Unsigned integer: Value range: 1 to 65535	N/A

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XML structure	18
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openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions/bgp-conditions/match-community-set	20
XML structure	20
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XML structure	23
Table description	23
Columns	23

openconfig-routing-policy

openconfig-routing-policy/routing-policy

This table contains routing policy information.

XML structure

```
<openconfig-routing-policy>
  <routing-policy>
    <defined-sets>
      <prefix-sets>
        <prefix-set>
          <name></name>
          <config>
            <name></name>
            <mode></mode>
          </config>
          <prefixes>
            <prefix>
              <ip-prefix></ip-prefix>
              <masklength-range></masklength-range>
              <config>
                <ip-prefix></ip-prefix>
                <masklength-range></masklength-range>
              </config>
            </prefix>
          </prefixes>
        </prefix-set>
      </prefix-sets>
      <bgp-defined-sets>
        <community-sets>
          <community-set>
            <community-set-name></community-set-name>
            <config>
              <community-set-name></community-set-name>
              <community-member></community-member>
            </config>
          </community-set>
        </community-sets>
      </bgp-defined-sets>
    </defined-sets>
    <policy-definitions>
      <policy-definition>
        <name></name>
        <config>
```



```

    <name></name>
  </config>
  <statements>
    <statement>
      <name></name>
      <config>
        <name></name>
      </config>
      <conditions>
        <match-prefix-set>
          <config>
            <prefix-set></prefix-set>
            <match-set-options></match-set-options>
          </config>
        </match-prefix-set>
        <bgp-conditions>
          <match-community-set>
            <config>
              <community-set></community-set>
            </config>
          </match-community-set>
        </bgp-conditions>
      </conditions>
      <actions>
        <config>
          <policy-result></policy-result>
        </config>
      </actions>
    </statement>
  </statements>
</policy-definition>
</policy-definitions>
</routing-policy>
</openconfig-routing-policy>

```

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	routing-policy
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
defined-sets	Defined-sets information	Subtable	N/A	For more information, see the routing-policy/defined-sets table.
policy-definitions	Policy-definitions information	Subtable	N/A	For more information, see the routing-policy/policy-definitions table.

openconfig-routing-policy/routing-policy/defined-sets

This table contains defined-sets information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	defined-sets
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix-sets	Prefix-sets information	Subtable	N/A	For more information, see the routing-policy/defined-sets/prefix-sets table.

openconfig-routing-policy/routing-policy/defined-sets/prefix-sets

This table contains prefix-sets information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	prefix-sets
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix-set	Prefix-set information	Sublist	N/A	For more information, see the routing-policy /defined-sets/ prefix-sets/ prefix-set table.

openconfig-routing-policy/routing-policy/defined-sets/prefix-sets/prefix-set

This table contains prefix-set information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	prefix-set
Table type	Single-instance table
Row name	prefix-set
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Prefix-set name	Index	String. Length: 1 to 63 characters.	N/A
config	Configuration information	Subtable	N/A	For more information, see the routing-policy /defined-sets/ prefix-sets/prefix-set/ config table.
prefixes	Prefixes information	Subtable	N/A	For more information, see the routing-policy /defined-sets/ prefix-sets/ prefix-set/ prefixes table.

openconfig-routing-policy/routing-policy/defined-sets/prefix-sets/prefix-set/config

This table contains prefix-set configuration information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	config

Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Prefix-set name	Index	String. Length: 1 to 63 characters.	N/A
mode	Prefix-set mode	N/A	String. Length: 1 to 16 characters.	Example: IPV4

openconfig-routing-policy/routing-policy/defined-sets/prefix-sets/prefix-set/prefixes

This table contains prefixes information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	prefixes
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix	Prefix information	Sublist	N/A	For more information, see the routing-policy /defined-sets/prefix-sets/ prefix-set/

Column name	Column description	Column type	Data type and restrictions	Remarks
				prefixes/prefix table.

openconfig-routing-policy/routing-policy/defined-sets/prefix-sets/prefix-set/prefixes/prefix

This table contains prefix information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	prefix
Table type	Multi-instance table
Row name	prefix
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ip-prefix	IP prefix and prefix length	Index	IPv4 prefix: String, dotted decimal notation. Prefix length. Length: 1-18	IPv4 example: 1.1.1.1/24.
masklength-range	Mask length range information	index	Ge: Greater than or equal to. Le: Less than or equal to. Length: 4-6.	IPv4 example: 24..26, exact (masklength == ge == le).
config	Configuration information	Subtable	N/A	For more information, see the routing-policy/defined-sets/prefix-sets/prefix-set/prefixes/prefix/config table.

openconfig-routing-policy/routing-policy/defined-sets/prefix-sets/prefix-set/prefixes/prefix/config

This table contains prefix configuration information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ip-prefix	IP prefix and prefix length	Index	IPv4 prefix: String, dotted decimal notation. Prefix length. Length: 1-18	IPv4 example: 1.1.1.1/24.
masklength-range	Mask length range information	index	Ge: Greater than or equal to. Le: Less than or equal to. Length: 4-6.	IPv4 example: 24..26, exact (masklength == ge == le).

openconfig-routing-policy/routing-policy/defined-sets/bgp-defined-sets

This table contains BGP-defined-sets information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	bgp-defined-sets
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
community-sets	Community-sets information	Subtable	N/A	For more information, see the routing-policy/defined-sets/bgp-defined-sets/community-sets table.

openconfig-routing-policy/routing-policy/defined-sets/bgp-defined-sets/community-sets

This table contains community-sets information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	community-sets
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
community-set	Community-set information	Sublist	N/A	For more information, see the routing-policy/defined-sets/bgp-defined-sets/community-sets/community-set table.

openconfig-routing-policy/routing-policy/defined-sets/bgp-defined-sets/community-sets/community-set

This table contains community-set information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	community-set
Table type	Multi-instance table
Row name	community-set
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
community-set-name	Community name	Index	String: Length: 1-2 Basic community list number: 1-99.	Example: 12.
config	Configuration information	Subtable	N/A	For more information, see the routing-policy

Column name	Column description	Column type	Data type and restrictions	Remarks
				/defined-sets/bgp-defined-sets/community-sets/community-set/config table.

openconfig-routing-policy/routing-policy/defined-sets/bgp-defined-sets/community-sets/community-set/config

This table contains community-set configuration information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
community-set-name	Community name	Index	String: Length: 1-2. Basic community list number: 1-99.	Example: 12
community-member	Community member	N/A	String: Length: 1-19 1-4294967295 aa:nn: aa<0-65535>:nn<0-65535> internet no-advertise	Example:12345, 11:22.

Column name	Column description	Column type	Data type and restrictions	Remarks
			no-export no-export-subconfed	

openconfig-routing-policy/routing-policy/policy-definitions

This table contains policy-definitions information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	policy-definitions
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
policy-definition	Policy-definition information	Subtable	N/A	For more information, see the routing-policy /policy-definitions / policy-definition table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition

This table contains policy-definition information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	policy-definition
Table type	Single-instance table
Row name	policy-definition
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Policy-definition name	Index	String. Length: 1 to 63 characters.	N/A
config	Configuration information	Subtable	N/A	For more information, see the routing-policy /policy-definitions /policy-definition/ config table.
statements	Statements information	Subtable	N/A	For more information, see the routing-policy /policy-definitions /policy-definition/ statements table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/config

This table contains policy-definition config information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Policy-definition name	Index	String. Length: 1 to 63 characters.	N/A

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements

This table contains statements information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	statements
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
statement	Statement information	Sublist	N/A	For more information, see the routing-policy/policy-definitions/policy-definition/statements/statement table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement

This table contains statement information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	statement
Table type	Multi-instance table
Row name	statement
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Node index	Index	Integer. Range: 0 to 65535.	Example: 123.
config	Configuration information	Subtable	N/A	For more information, see the routing-policy / policy-definitions / policy-definition / statements / statement / config

Column name	Column description	Column type	Data type and restrictions	Remarks
				table.
conditions	Conditions information	Subtable	N/A	For more information, see the routing-policy / policy-definitions/ policy-definition/s tatements/ statement / conditions table.
actions	Actions information	Subtable	N/A	For more information, see the routing-policy / policy-definitions/ policy-definition/s tatements/ statement / actions table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/config

This table contains statement configuration information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
name	Node index	Index	Integer. Range: 0 to 65535.	Example: 123.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions

This table contains conditions information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	conditions
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
match-prefix-set	Match-prefix-set information	Sublist	N/A	For more information, see the routing-policy/policy-definitions/policy-definition/statements/statement/conditions/match-prefix-set table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions/match-prefix-set

This table contains match-prefix-set information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	match-prefix-set
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration information	Subtable	N/A	For more information, see the routing-policy/policy-definitions/policy-definition/statements/statement/conditions/match-prefix-set/config table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions/match-prefix-set/config

This table contains match-prefix-set configuration information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix-set	Prefix-set information	N/A	String. Length: 1 to 63 characters.	N/A
match-set-options	Match-set-options information	N/A	String. Length: 1 to 16 characters. Only support "ANY".	Example: ANY

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions/bgp-conditions

This table contains BGP-conditions information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	bgp-conditions
Table type	Single-instance table

Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
match-community-set	Match-community-set information	Subtable	N/A	For more information, see the routing-policy/policy-definitions/policy-definition/statements/statement/conditions/bgp-conditions/match-community-set table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions/bgp-conditions/match-community-set

This table contains match-community-set information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	match-community-set
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration information	Subtable	N/A	For more information, see the routing-policy/policy-definitions/policy-definition/statements/statement/conditions/bgp-conditions/match-community-set/match-community-set/config table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/conditions/bgp-conditions/match-community-set/match-community-set/config

This table contains match-community-set configuration information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
community-set	Community-set information	N/A	String: Length: 1-2.	Example: 12.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Basic community list number: 1-99.	

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/actions

This table contains actions information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	actions
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
config	Configuration information	Subtable	N/A	For more information, see the routing-policy/policy-definition/statements/statement/actions/config table.

openconfig-routing-policy/routing-policy/policy-definitions/policy-definition/statements/statement/actions/config

This table contains actions configuration information.

XML structure

Please refer to the XML structure of openconfig-routing-policy/routing-policy.

Table description

Item	Description
Feature name	openconfig-routing-policy
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
policy-result	Policy-result information	N/A	String: ACCEPT_ROUTE or REJECT_ROUTE. Length: 1 to 16 characters. Enumeration: <ul style="list-style-type: none">ACCEPT_ROUTEREJECT_ROUTE	Example: ACCEPT_ROUTE.

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openconfig-spanning-tree

openconfig-spanning-tree/stp

This table contains openconfig-spanning-tree/stp information.

XML structure

```
<openconfig-spanning-tree>
  <stp>
    <global>
      <config>
        <bpdu-guard></bpdu-guard>
      </config>
    </global>
    <mstp>
      <config>
        <name></name>
        <revision></revision>
      </config>
      <mst-instances>
        <mst-instance>
          <mst-id></mst-id>
          <config>
            <mst-id></mst-id>
            <vlan></vlan>
            <bridge-priority></bridge-priority>
          </config>
        </mst-instance>
      </mst-instances>
    </mstp>
    <interfaces>
      <interface>
        <name></name>
        <config>
          <name></name>
          <edge-port></edge-port>
        </config>
      </interface>
    </interfaces>
  </stp>
</openconfig-spanning-tree>
```


Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	stp
Table type	Single-instance table
Row name	N/A
Restrictions	No
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
global	Global STP information	Subtable	N/A	For more information, see the openconfig-spanning-tree/stp/global table.
mstp	MST information	Sublist	N/A	For more information, see the openconfig-spanning-tree/stp/mstp table.
interfaces	Interface table	Sublist	N/A	For more information, see the openconfig-spanning-tree/stp/interfaces table.

openconfig-spanning-tree/stp/global

This table contains openconfig-spanning-tree/stp/global information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	global
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
config	Global STP configuration information	Subtable	N/A	For more information, see the openconfig-spanning-tree/stp/global/config table.

openconfig-spanning-tree/stp/global/config

This table contains openconfig-spanning-tree/stp/global/config information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	config
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
bpdu-guard	Global BPDU guard function	N/A	Boolean: <ul style="list-style-type: none">true—Enables BPDU guard.false—Disables BPDU guard (default).	Global BPDU guard function

openconfig-spanning-tree/stp/mstp

This table contains openconfig-spanning-tree/stp/mstp information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	mstp
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
config	Configuration items of the mst table	Subtable	N/A	For more information, see the openconfig-spanning-tree/stp/mstp/config table.
Mst-instances	Portlayer information table	Sublist	N/A	For more information, see the openconfig-spanning-tree/stp/mstp/mst-instances table.

openconfig-spanning-tree/stp/mstp/config

This table contains openconfig-spanning-tree/stp/mstp/config information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	config

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
name	MST region name	N/A	String. Length: 1 to 32 characters. Default: Hex-string of the bridge MAC address.	Read-write. The value range is 1 to 4094.
revision	Revision level of the MST region	N/A	Unsigned integer. <ul style="list-style-type: none"> Value range: 0 to 65535. Default: 0. 	When a new revision level is configured, the active region configuration will be changed.

openconfig-spanning-tree/stp/mstp/mst-instances

This table contains openconfig-spanning-tree/stp/mstp/mst-instances information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	mst-instances
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
mst-instance	mst-instance table	Sublist	N/A	For more information, see the openconfig-spanning-tree/stp/mstp/mst-instances/mst-instances table.

openconfig-spanning-tree/stp/mstp/mst-instances/mst-instance

This table contains openconfig-spanning-tree/stp/mstp/mst-instances/mst-instance information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	mst-instance
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
mst-id	Spanning tree index	Index	Unsigned integer. Value range: 1 to 4094.	N/A
config	Configuration items of the sti table	Subtable	N/A	For more information, see the openconfig-spanning-tree/stp/mstp/mst-instances/mst-instance/config table.

openconfig-spanning-tree/stp/mstp/mst-instances/mst-instance/config

This table contains openconfig-spanning-tree/stp/mstp/mst-instances/mst-instance/config information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	config
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
mst-id	Spanning tree index	Index	Unsigned integer. Value range: 1 to 4094.	N/A
vlan	List of VLANs allocated to the MST instance	N/A	Number string. It is a comma-separated list of VLAN items. <ul style="list-style-type: none">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).	<ul style="list-style-type: none">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 to 4094.
bridge-priority	Bridge priority of the spanning tree	N/A	Unsigned integer. <ul style="list-style-type: none">Value range: 0 to 61440, in increments of 4096	Configuration is not allowed when the root type is configured as primary root or secondary root, except

Column name	Column description	Column type	Data type and restrictions	Remarks
			(as in 0, 4096, 8192). <ul style="list-style-type: none"> Default: 32768. 	for the following values combination: <ul style="list-style-type: none"> Priority is 0 when the root type is primary. Priority is 4096 when the root type is secondary.

openconfig-spanning-tree/stp/interfaces

This table contains openconfig-spanning-tree/stp/interfaces information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	interfaces
Table type	Single-instance table
Row name	N/A
Restrictions	N/A
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface	Interface table	Sublist	N/A	For more information, see the openconfig-spanning-tree/stp/interfaces/interface table.

openconfig-spanning-tree/stp/interfaces/interface

This table contains openconfig-spanning-tree/stp/interfaces/interface information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree
Table name	interface
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
name	Full name of an interface	Index	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	Read-write.
config	Configuration items of an interface	Sublist	N/A	For more information, see the openconfig-spanning-tree/stp/interfaces/interface/config table

openconfig-spanning-tree/stp/interfaces/interface/config

This table contains openconfig-spanning-tree/stp/interfaces/interface/config information.

XML structure

See the XML structure of openconfig-spanning-tree/stp.

Table description

Item	Description
Feature name	openconfig-spanning-tree

Item	Description
Table name	config
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
name	Full name of an interface	Index	String. Length: 2 to 47 characters. Example: GigabitEthernet2/0/2	Read-write.
edge-port	Edge aggregate interface configuration	N/A	Boolean: <ul style="list-style-type: none"> true—Configures the interface as an edge aggregate interface. It should not be configured when loop protection is enabled. false—Configures the interface as a non-edge aggregate interface (default). 	N/A

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static-route

openconfig-local-routing/local-routes/static-routes/static

This table contains static route information.

XML structure

```
<static-routes xmlns="http://openconfig.net/yang/local-routing">
  <static>
    <prefix></prefix>
    <next-hops>
      <next-hop>
        <index></index>
        <config>
          <index></index>
          <next-hop></next-hop>
        </config>
        <interface-ref>
          <config>
            <interface></interface>
          </config>
        </interface-ref>
      </next-hop>
    </next-hops>
  </static>
</static-routes>
```

Table description

Item	Description
Feature name	static-route
Table name	static
Table type	Multi-instance table
Row name	static

Item	Description
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
prefix	Destination prefix for the static route.	Index	String: Length: 1 to 46 characters	For example: 1.1.1.1/24
next-hops	Next hop information	Subtable	N/A	N/A

openconfig-local-routing/local-routes/static-routes/static/next-hops/next-hop

This table contains next hop information.

XML structure

Please refer to the XML structure of openconfig-local-routing/local-routes/static-routes/static.

Table description

Item	Description
Feature name	static-route
Table name	next-hop
Table type	Multi-instance table
Row name	next-hop
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	An user-specified identifier used to	Index	String: Length: 1 to 93 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	uniquely identify the next-hop entry in the next-hop list. The value of this index has no semantic meaning other than for identifying the entry.			
config	Configuration information	Subtable	N/A	N/A
interface-ref	Interface information	Subtable	N/A	N/A

openconfig-local-routing/local-routes/static-routes/static/next-hops/next-hop/config

This table contains next hop configuration information.

XML structure

Please refer to the XML structure of openconfig-local-routing/local-routes/static-routes/static.

Table description

Item	Description
Feature name	static-route
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
index	Destination prefix for the static route.	Index	String: Length: 1 to 93 characters.	N/A
next-hop	Next hop address	N/A	String: Length: 1 to 46 characters.	N/A

openconfig-local-routing/local-routes/static-routes/static/next-hops/next-hop/interface-ref/config

This table contains next hop interface configuration information.

XML structure

Please refer to the XML structure of openconfig-local-routing/local-routes/static-routes/static.

Table description

Item	Description
Feature name	static-routes
Table name	config
Table type	Multi-instance table
Row name	config
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
interface	Interface name.	N/A	String: Length: 1 to 46 characters.	N/A

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openconfig-system/system

system

This table contains system information.

XML structure

```
<system>
  <config>
    <hostname></hostname>
  </config>
  <clock>
    <config>
      <timezone-name></timezone-name>
    </config>
  </clock>
  <logging>
    <remote-servers>
      <remote-server>
        <host></host>
        <config>
          <host></host>
          <remote-port></remote-port>
        </config>
        <selectors>
          <selector>
            <facility></facility>
            <config>
              <facility></facility>
            </config>
          </selector>
        </selectors>
      </remote-server>
    </remote-servers>
  </logging>
</system>
```

Table description

Item	Description
Feature name	openconfig-system
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
config	Config information	Subtable	N/A	For more information, see the system/config table.
clock	Clock information	Subtable	N/A	For more information, see the system/clock table.
logging	Logging information	Subtable	N/A	For more information, see the system/logging table.

system/config

This table contains system config information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	config
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.	Read-write

system/clock

This table contains system clock information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	clock
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
config	Clock config information	Subtable	N/A	For more information, see the system/clock/config table.

system/clock/config

This table contains system clock config information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	config

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
timezone-name	Time zone name	N/A	String. Length: 1 to 32 characters.	Read-write

system/logging

This table contains system logging information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	logging
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
remote-servers	remote-servers information	Subtable	N/A	For more information, see the system/logging/remote-servers table.

system/logging/remote-servers

This table contains system logging remote-servers information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	remote-servers
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
remote-server	remote-server information	Sublist	N/A	For more information, see the system/logging/remote-servers/remote-server table.

system/logging/remote-servers/remote-server

This table contains system logging remote-servers remote-server information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	remote-server
Table type	Multi-instance table

Row name	remote-server
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
host	IP address	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	Read-write. IPv4 example: 1.1.1.1. IPv6 example: 1:2:3:4:5:6:7:8.
config	config information	Subtable	N/A	For more information, see the system/logging/remote-servers/remote-server/config table.
selectors	selectors information	Subtable	N/A	For more information, see the system/logging/remote-servers/remote-server/selectors table.

system/logging/remote-servers/remote-server/config

This table contains system logging remote-servers remote-server config information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	config
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
host	IP address	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	Refer to system/logging/remote-servers/host index
remote-port	Port number	N/A	N/A	Read-write

system/logging/remote-servers/remote-server/selectors

This table contains system logging remote-servers remote-server selectors information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	selectors
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
selector	selector information	Subtable	N/A	For more information, see the system/logging/remote-servers/remote-server/selectors/selectors table.

system/logging/remote-servers/remote-server/selectors/selector

This table contains system logging remote-servers remote-server selectors selector information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	selector
Table type	Single-instance table
Row name	selector
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
facility	Logging facility used by the log host	N/A	Enumeration: <ul style="list-style-type: none">• 128—local0.• 136—local1.• 144—local2.• 152—local3.• 160—local4.• 168—local5.• 176—local6.• 184—local7.	Read-write
config	config information	Subtable	N/A	For more information, see the system/logging/remote-servers/remote-server/selectors/selector/config table.

system/logging/remote-servers/remote-server/selectors/selector/config

This table contains system logging remote-servers remote-server selectors selector config information.

XML structure

Please refer to the XML structure of system.

Table description

Item	Description
Feature name	openconfig-system
Table name	config
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
facility	Logging facility used by the log host	N/A	Enumeration: <ul style="list-style-type: none">• 128—local0.• 136—local1.• 144—local2.• 152—local3.• 160—local4.• 168—local5.• 176—local6.• 184—local7.	Read-write

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XML structure.....	5
Table description.....	5
Columns.....	5

openconfig-vlan

vlan

This table contains basic VLAN information.

XML structure

```
<vlans>
  <vlan>
    <vlan-id></vlan-id>
    <config>
      <vlan-id></vlan-id>
      <name></name>
      <tpid></tpid>
    </config>
  </vlan>
</vlans>
```

Table description

Item	Description
Feature name	openconfig-vlan
Table name	vlan
Table type	Single-instance table
Row name	N/A
Restrictions	None
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
vlan	Vlan information	Sublist	N/A	For more information, see the vlans/vlan table.

vlans/vlan

This table contains basic VLAN configuration information.

XML structure

Please refer to the XML structure of vlans.

Table description

Item	Description
Feature name	openconfig-vlan
Table name	vlan
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
vlan-id	Vlan id	Index	Unsigned integer. Value range: 1 to 4094.	Read-write
config	Vlan config information	Subtable	N/A	For more information, see the vlans/config table.

vlans/vlan/config

This table contains basic VLAN configuration information.

XML structure

Please refer to the XML structure of vlans.

Table description

Item	Description
Feature name	openconfig-vlan
Table name	config
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
vlan-id	Vlan id	Index	Unsigned integer. Value range: 1 to 4094.	Refer to vlans vlan-id.
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.	Read-write. Example: VLAN 0001.
tpid	Tag protocol identifier field	N/A	Unsigned integer. Value range: 1 to 65535.	Read-write. Default TPID_0x8100

switched-vlan

This table contains basic switched-vlan information.

XML structure

```
<openconfig-vlan>
  <switched-vlan>
    <config>
      <interface-mode></interface-mode>
      <native-vlan></native-vlan>
      <access-vlan></access-vlan>
      <trunk-vlans></trunk-vlans>
    </config>
  </switched-vlan>
</openconfig-vlan>
```

Table description

Item	Description
Feature name	openconfig-vlan
Table name	switched-vlan
Table type	Single-instance table
Row name	N/A
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
config	Switched-vlan configuration information	Subtable	N/A	For more information, see the switched-vlan/config table.

switched-vlan/config

This table contains basic switched-vlan configuration information.

XML structure

Please refer to the XML structure of switched-vlan.

Table description

Item	Description
Feature name	openconfig-vlan
Table name	config
Table type	Single-instance table
Row name	N/A
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
interface-mode	Set the interface mode to access or trunk for VLANs.	N/A	Enumeration: <ul style="list-style-type: none">TRUNK.ACCESS.	Read-write.
native-vlan	Set the port VLAN ID (PVID) for untagged frames arriving on a trunk interface.	N/A	Value range: 1 to 4094.	Read-write. You can configure this column when the interface-mode is set to TRUNK.

Column name	Column description	Column type	Data type and restrictions	Remarks
access-vlan	Port VLAN ID	N/A	Value range: 1 to 4094.	Read-write. You can config this columns when interface-mode is set to "ACCESS"
trunk-vlans	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.	Read-write. You can config this columns when interface-mode is set to "TRUNK". 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.

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OFC

OFC/Channel

This table contains information about OpenFlow controller Channel.

XML structure

```
<OFC>
  <Channels>
    <Channel>
      <DatapathID></DatapathID>
      <ChannelID></ChannelID>
      <SwitchIPv4Address></SwitchIPv4Address>
      <SwitchIPv6Address></SwitchIPv6Address>
    </Channel>
  </Channels>
</OFC>
```

Table description

Item	Description
Feature name	OFC
Table name	Channels
Table type	Multi-instance table
Row name	Channel
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions
DatapathID	DatapathID of instance	Index	Unsigned integer64. <ul style="list-style-type: none">Value range: 1 to $2^{64}-1$.
ChannelID	Channel's ID	Index	Unsigned integer. <ul style="list-style-type: none">Value range: 0-255.
SwitchIPv4Address	Switch's IPv4 address	N/A	String, dotted decimal notation.
SwitchIPv6Address	Switch's IPv6 address	N/A	String, semicolon hex notation.

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: <ul style="list-style-type: none"> 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>
        <DataPlane></DataPlane>
      </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	OFPP
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. <ul style="list-style-type: none">• Value range: 1-4094.
Description	Description of instance	N/A	String. <ul style="list-style-type: none">• Length: 1 to 255 characters. Default is empty.
DatapathID	DatapathID of instance	N/A	Unsigned integer64. <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• true—Yes.• false—No(Default).
Capabilities	Capabilities of instance	Data structure	Members include: <ul style="list-style-type: none">• MaxEntries.• DynamicMacAware.• MacLearning.• TableMissDefaultPermit.• ForbiddenPort.• PermitPort.• DynamicArpPre.• TcpNsr.
MaxEntries	Maximum number of flow entry in instance	N/A	Unsigned integer. <ul style="list-style-type: none">• Value range: Depends on device type. Default value depends on device type.
DynamicMacAware	Enable to query state of dynamic mac addresses	N/A	Boolean: <ul style="list-style-type: none">• true—Yes.• false—No(Default).
MacLearning	Enable mac learning in instance	N/A	Boolean: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Yes. false—No(Default).
TcpNsr	Enable controller tcp nsr in instance	N/A	Boolean: <ul style="list-style-type: none"> true—Yes(Default). false—No.
Resources	Resources of instance	Data structure	Members include: <ul style="list-style-type: none"> ClassificationType. ClassificationVLAN. ClassificationVLANMask. ClassificationVLANLoosen. InbandManagementVLANList. MACIPTableIDList. ExtensibilityFlowTableIDList.
ClassificationType	Classification type of instance	N/A	Enumeration: <ul style="list-style-type: none"> 1—VLANMask. 2—Global. Default is not configured.
ClassificationVLAN	VLAN value when the type of classification is VLANMask	N/A	Unsigned integer. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> ConnectionMode. ConnectionInterval. EchoInterval. LostConnectionBehavior. TcpDscp. ForbiddenPktInArpCtrl.
ConnectionMode	Connection mode for controller in instance	N/A	Enumeration: <ul style="list-style-type: none"> 0—Parallel(Default). 1—Serially.
ConnectionInterval	Connection retry interval for connection with controller in instance	N/A	Unsigned integer. <ul style="list-style-type: none"> Value range: 1-120. Default is 60.
EchoInterval	Interval time value of echo packet sending to controller in instance	N/A	Unsigned integer. <ul style="list-style-type: none"> Value range: 1-10. Default is 5.
LostConnectionBehavior	Behavior for connection failure with all controllers in instance	N/A	Enumeration: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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.
DataPlane	Enable the data forwarding plane feature in an instance	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.

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
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>
        <DataPlane></DataPlane>
      </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. <ul style="list-style-type: none"> Value range: 1-4094.
Description	Description of instance	N/A	String. <ul style="list-style-type: none"> Length: 1 to 255 characters.
DatapathID	DatapathID of instance	N/A	Unsigned integer64. <ul style="list-style-type: none"> Value range: 1 to $2^{64}-1$.
Enable	Enable status of instance	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
Capabilities	Capabilities of instance	Data structure	Members include: <ul style="list-style-type: none"> MaxEntries. DynamicMacAware. MacLearning. TableMissDefaultPermit. ForbiddenPort. PermitPort. DynamicArpPre. TcpNsr.
MaxEntries	Maximum number of flow entry in instance	N/A	Unsigned integer. <ul style="list-style-type: none"> Value range: Depends on device type.
DynamicMacAware	Enable to query state of dynamic mac addresses	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
MacLearning	Enable mac learning in instance	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
TableMissDefaultPermit	Assign “Permit” as the default table miss action of instance	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Yes. false—No.
TcpNsr	Enable controller tcp nsr in instance	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
Resources	Resources of instance	Data structure	Members include: <ul style="list-style-type: none"> ClassificationType. ClassificationVLAN. ClassificationVLANMask. ClassificationVLANLoosen. InbandManagementVLANList. MACIPTableIDList. ExtensibilityFlowTableIDList.
ClassificationType	Classification type of instance	N/A	Enumeration: <ul style="list-style-type: none"> 1—VLANMask. 2—Global.
ClassificationVLAN	VLAN value when the type of classification is VLANMask	N/A	Unsigned integer. <ul style="list-style-type: none"> Value range: 1-4094.
ClassificationVLANMask	VLAN mask value when the type of classification is VLANMask	N/A	Unsigned integer. <ul style="list-style-type: none"> Value range: 0-4095.
ClassificationVLANLoosen	Loosen mode when the type of classification is VLANMask	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No.
InbandManagementVLANList	In band managment VLAN list of the instance	N/A	Number string. It is a comma-separated list of VLAN items. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> ConnectionMode. ConnectionInterval. EchoInterval. LostConnectionBehavior. TcpDscp. ForbiddenPktInArpCtrl.
ConnectionMode	Connection mode for controller in instance	N/A	Enumeration: <ul style="list-style-type: none"> 0—Parallel. 1—Serially.
ConnectionInterval	Connection retry interval for connection with controller in instance	N/A	Unsigned integer. <ul style="list-style-type: none"> Value range: 1-120.
EchoInterval	Interval time value of echo packet sending to controller in instance	N/A	Unsigned integer. <ul style="list-style-type: none"> Value range: 1-10.
LostConnectionBehavior	Behavior for connection failure with all controllers in instance	N/A	Enumeration: <ul style="list-style-type: none"> 1—Standalone. 2—Secure. 4—Smart
TcpDscp	Set the DSCP value for OpenFlow messages in an OpenFlow instance	N/A	Unsigned integer. <ul style="list-style-type: none"> 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.
DataPlane	Enable the data forwarding plane feature in an instance	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.

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.

Column name	Column description	Column type	Data type and restrictions
IPv4Address	Controller's IPv4 address	N/A	String, dotted decimal notation.
IPv6Address	Controller's IPv6 address	N/A	String, semicolon hex notation.
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. <ul style="list-style-type: none"> 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>
    <SupportExtensibilityTableNum></SupportExtensibilityTableNum>
  </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: <ul style="list-style-type: none">• true—Support.• false—Nonsupport.
SupportExtensibilityTableNum	Number of extensibility tables supported by the instance	N/A	Unsigned integer. Value range: 0-255.

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OFP

OFP/RefreshIpFlow

Message	Explanation
Failed to configure OpenFlow. 配置Open Flow失败。	Invalid configuration, please modify configuration under the guidance. 无效的配置，请修改指导下的配置。
The Openflow process is busy. Please try again later. OpenFlow进程繁忙，请稍后尝试。	Receive message failure,connect server failure 接收消息失败或者与服务端建立连接失败。

OFP/Packet

Message	Explanation
Failed to configure OpenFlow. 配置Open Flow失败。	Invalid configuration, please modify configuration under the guidance. 无效的配置，请修改指导下的配置。
The Openflow process is busy. Please try again later. OpenFlow进程繁忙，请稍后尝试。	Receive message failure,connect server failure 接收消息失败或者与服务端建立连接失败。

OFP/LogicalSwitches

Message	Explanation
Failed to configure OpenFlow. 配置Open Flow失败。	Invalid configuration, please modify configuration under the guidance. 无效的配置，请修改指导下的配置。
The Openflow process is busy. Please try again later. OpenFlow进程繁忙，请稍后尝试。	Receive message failure,connect server failure 接收消息失败或者与服务端建立连接失败。
The value of VLAN ID should be specified when the type is VLAN Mask. 类型为VLAN掩码时必须指定VLAN ID。	The value of VLAN ID should be specified when the instance type is VLAN Mask. 实例类型为VLAN掩码时必须指定VLAN ID。
Configuration of VLAN should not be specified, when the type is global. 类型为全局时不能执行VLAN相关配置。	Configuration of VLAN should not be specified, when the instance type is global. 实例类型为全局时不能执行VLAN相关配置。
Configuration of VLAN failed, because the type is not specified 由于未指定类型，VLAN配置失败	The instance type should be specified,when existence the configuration of the VLAN. 当存在VLAN的相关的配置的时候，应该指定相应的实例类型。
The Extensibility TableID is not legal.	The value of extensibility Tabled ID is only number and the

扩展流表ID输入不合法。	extensibility table ID should be in the range of 0-254. 扩展流表ID的值只能是数字并且必须在0-254范围内。
Configuration of multiple MAC-IP flow table ID is not supported. 暂不支持配置多个MAC-IP流表ID	Only one MAC-IP flow table ID can be supported. 只能配置一个MAC-IP流表ID。
Configuration of multiple multiple Extensibility flow table ID is not supported. 暂不支持配置多个Extensibility流表ID。	Only one extensibility flow table ID can be supported. 只能配置一个Extensibility流表ID。
The MAC-IP TableID is not legal. MAC-IP流表ID的值不合法。	The value of MAC-IP Tabled ID is only number and the MAC-IP table ID should be in the range of 0-254. MAC-IP流表ID的值只能是数字且范围是0-254。 .
Extensibility table ID and MAC-IP table ID should be in the range of 0-254. 扩展流表和MAC-IP流表的ID必须在0-254范围内。	The MAC-IP table ID and Extensibility table ID should be in the range of 0-254. 扩展流表和MAC-IP流表的ID应该在0-254范围内。
Can not delete the configuration of Vlan ID when the type is VLAN Mask. 类型为VLAN掩码时不允许删除VLAN ID。	If instance type is VLAN Mask ,the VLAN ID is not allowed to be deleted when an instance table is deleted、removed、replaced. 在对实例表进行delete、remove、replace时，如果实例类型是VLAN掩码则不允许删除VLAN ID
MAC-IP table ID and extensibility table ID should be deleted together. MAC-IP流表和扩展流表必须一起删除。	If the table type is MAC-IP table,,the MAC-IP table should be deleted with the extensibility table when an instance table is deleted、removed、replaced. 在对实例表进行delete、remove、replace时，如果流表类型是MAC-IP表，则MAC-IP表应该和扩展表一起删除。
Extensibility Flow table ID should be larger than MAC-IP table ID. 扩展流表ID必须大于MAC-IP流表ID。	MAC-IP table ID should be less than extensibility flow table ID. MAC-IP流表的ID不能大于扩展流表的ID。
The instance is already active, please deactivate instance first. 实例已经激活，请首先去激活。	Modify the activated instance configuration is not allowed when the instance has been activated. 实例已经被激活，不允许去修改已经激活的配置。
Queue wait timeout. 队列等待超时。	Read queue failure 读取队列失败
The operation of instance activation/deactivation is running, please try later. 实例激活和去激活的操作正在运行中，请稍后尝试。	The operation of instance activation/deactivation is running. 实例激活或者去激活的操作正在进行。
Failed to activate instance, please configure classification first. 激活实例请先配置实例类型。	Please configure classification first before activate instance. 激活实例之前请先配置实例类型。
No openflow instance exists. 没有OpenFlow实例存在。	No openflow instance exists. 没有OpenFlow实例存在。

OFP/Controller

Message	Explanation
Please configure IPV4 or IPV6 unicast address.	IPV4 or IPV6 unicast address should be configured when the

请配置IPv4或IPv6的单播地址。	controller is created. 当创建控制器配置的时候，IPV4或者IPV6的单播地址应该被设置。
The instance does not exist. 指定的实例不存在。	The instance ID does not exist. 指定的实例不存在。
The specified controller can not be modified. 不支持修改控制器配置。	The specified controller is already exist when the current controller is create;the current controller has the same configure with others when the current controller is merged;the current controller is not line deletion when controller is deleted、removed. 控制器进行merge操作时，存在重复配置；进行creat操作时，指定的控制器已经存在；delete和remove操作时不是行删除。
SSL policy should not be specified when the value of protocol is TCP. 当使用TCP连接控制器时，不能配置SSL策略。	When the value of protocol is TCP ,ssl policy should not be specified. 当使用TCP连接控制器时，不能配置SSL策略。
SSL policy should be specified when the value of protocol is SSL. 当使用SSI连接控制器时，必须配置SSL策略。	When the value of protocol is SSL ,ssl policy should be specified. 当使用SSI连接控制器时，必须配置SSL策略。
Local IPv4 and IPv6 address can not be configured at the same time. 本地IPv4和IPv6地址不能同时配置。	Local IPv4 and IPv6 address can not be configured at the same time. 本地IPv4和IPv6地址不能同时配置。
IPv4 or IPv6 address must be configured. 配置控制器时必须指定IPv4或IPv6地址。	IPv4 or IPv6 address must be configured. 配置控制器时必须指定IPv4或IPv6地址。
The value of local IPv4 or IPv6 address should be configured when Local port is specified. 配置本地端口时必须指定本地IPV4或IPV6地址。	When Local port is specified, the value of local IPv4 or IPv6 address should be configured. 配置本地端口时必须指定本地IPV4或IPV6地址。
The specified controller ID exists. 指定的控制器号已经存在。	Cannot conflict with existing controller ID when creating controller configuration. 创建控制器配置时不能与已有的控制器ID冲突。
OpenFlow controller configuration conflicts with other one. 指定控制器的配置和其他控制器冲突。	The current controller configuration cannot config with other controllers when the current controller is created. 当控制器进行creat操作时，当前控制器的配置不能与其他控制相冲突。

OFP/GlobalConfigurations

Message	Explanation
The global instance and VLAN instance can't take effect simultaneously. 全局实例和VLAN实例不可同时生效。	The global instance and VLAN instance can't be activated simultaneously. 全局实例和VLAN实例不可同时被激活生效。
This global classification already exists. 全局配置已经存在。	The current global classification conflict with others. 当前的全局配置与其他实例配置冲突。

OFP/Capability

Message	Explanation
NULL	NULL

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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
			<ul style="list-style-type: none"> 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.
Areald	Area ID.	Index	String, dotted decimal notation.	N/A
AreaType	Area type.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Stub. 2—NSSA. 	You cannot specify AreaType when Areald 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.
Areald	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>
      <PrefixSid>
        <SidName></SidName>
        <SidType></SidType>
      </PrefixSid>
    </Interface>
  </Interfaces>
</OSPF>
```



```

<Sid></Sid>

<ExplicitNull></ExplicitNull>

<NFlagClear></NFlagClear>

</PrefixSid>

</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: <ul style="list-style-type: none"> Name. Areald. ExcludedSubIp. 	The members of Name and Areald must be specified.
Name	Instance name.	N/A	String, case-sensitive. 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: <ul style="list-style-type: none"> true—Excludes secondary IP addresses. false—Does not exclude secondary IP addresses (default). 	N/A
Cost	Interface cost.	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: <ul style="list-style-type: none"> Loopback interfaces: 0 to 65535. Other interfaces: 1 to 65535. Default: <ul style="list-style-type: none"> Loopback interfaces: 0. Other interfaces: The cost values are calculated by using the formula: $Cost = \frac{Reference\ bandwidth\ value}{Expected\ interface\ bandwidth}$. 	
NetworkType	Interface network type.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> SimplePwdType. SimplePwd. 	The members must both be specified.
SimplePwdType	Simple password type.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Cipher. 2—Plain. 	N/A
SimplePwd	Simple password.	N/A	String. Length: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Enable control packet mode. 2—Enable echo packet mode. 	N/A
PrefixSid	Prefix Segment ID messages.	Data structure	Members include: <ul style="list-style-type: none"> SidName. SidType. 	The members of SidName, SidType and Sid must be specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> Sid. ExplicitNull. NFlagClear. 	
SidName	Instance name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	It must be an unsigned integer in the range of 1 to 65535.
SidType	The type of Prefix-SID	N/A	Enumeration: <ul style="list-style-type: none"> 1—Absolute value of Prefix-SID. 2—Index value of Prefix-SID. 	N/A
Sid	Prefix Segment ID	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
ExplicitNull	Explicit null label	N/A	Boolean: <ul style="list-style-type: none"> true—The upstream neighbor replaces the prefix SID with an explicit null label. false—The upstream neighbor does not replace the prefix SID with an explicit null label (default). 	N/A
NFlagClear	Clear the N-flag	N/A	Boolean: <ul style="list-style-type: none"> true—Clears the N-flag for the prefix SID. false—Does not clear the N-flag for the prefix SID (default). 	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Cipher. 2—Plain. 	After a Md5 is created, its PasswordType cannot be modified.
Password	Password.	N/A	String. Length: <ul style="list-style-type: none"> 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 	After a Md5 is created, its Password cannot be modified.

Column name	Column description	Column type	Data type and restrictions	Remarks
			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.	Only 0 is

Column name	Column description	Column type	Data type and restrictions	Remarks
			Value range: 0, 32 to 127. Default: 0.	supported now.
Type	Route type.	Index	Enumeration: <ul style="list-style-type: none"> 1—AS internal route. 2—AS external route. 	N/A
Value	Preference value.	N/A	Unsigned integer. Value range: 1 to 255. Default: <ul style="list-style-type: none"> 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

Item	Description
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: <ul style="list-style-type: none"> true—Does not advertise summary route. false—Advertises summary route (default). 	N/A
NssaOnly	Limits summary routes to NSSA areas.	N/A	Boolean: <ul style="list-style-type: none"> 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 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: <ul style="list-style-type: none"> true—Specifies a cost for the external LSAs. false—Does not specify 	For the create and merge operations, if you both configure the ExternalLsa and

Column name	Column description	Column type	Data type and restrictions	Remarks
			a cost for the external LSAs (default).	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> WaitForBgp. Seconds. 	At least one member must be specified.
WaitForBgp	Waits for BGP on-startup.	N/A	Boolean: <ul style="list-style-type: none"> 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 (default). 	N/A
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

Column name	Column description	Column type	Data type and restrictions	Remarks
				value for Seconds is 600.
SummaryLsa	Configures the cost of the summary LSAs.	N/A	Boolean: <ul style="list-style-type: none"> true—Specifies a cost for the Type-3 LSAs. false—Does not specify a cost for the Type-3 LSAs (default). 	<p>For the create and merge operations, if you both configure the SummaryLsa and SumMetric, you must specify the SummaryLsa as true.</p> <p>For the replace operation, if you configure the SumMetric, you must configure the SummaryLsa too, and specify the SummaryLsa as true.</p> <p>For the delete and remove operations, if you configure the SummaryLsa, the SumMetric value will be deleted.</p>
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>
    </Nssa>
  </Nssas>
</OSPF>

```



```

    <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.
Areald	Area ID.	Index	String, dotted decimal notation.	
DefaultRouteAdvertiseCfg	Default route advertisement messages.	Data structure	Members include: <ul style="list-style-type: none"> DefaultRouteAdvertise. Cost. NssaOnly. PolicyName. Type. 	N/A
DefaultRouteAdvertise	Whether to generate a Type-7 default into the NSSA area.	N/A	Boolean: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				<p>must specify the DefaultRouteAdvertise as true.</p> <p>For the replace operation, if you configure the other members, you must configure the DefaultRouteAdvertise too, and specify it as true.</p> <p>For the delete and remove operations, if you configure the DefaultRouteAdvertise, the values of the rest members will be deleted.</p>
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Type 1. 2—Type 2. 	N/A
NoImportRoute	Whether to redistribute routes into the NSSA area.	N/A	Boolean: <ul style="list-style-type: none"> true—Does not redistribute routes into the NSSA area. false—Redistributes routes into the NSSA area (default). 	N/A
NoSummary	Whether to send summary LSA into the NSSA area.	N/A	Boolean: <ul style="list-style-type: none"> 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	N/A	Boolean: <ul style="list-style-type: none"> true—Suppresses the forwarding address in the Type-7 LSAs from being 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	Type-7 LSAs from being placed in the Type-5 LSAs.		placed in the Type-5 LSAs. <ul style="list-style-type: none"> false—Does not suppress the forwarding address in the Type-7 LSAs from being placed in the Type-5 LSAs (default). 	
Translate	Whether to translate Type-7 LSAs to Type-5 LSAs.	N/A	Enumeration: <ul style="list-style-type: none"> 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

Item	Description
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: <ul style="list-style-type: none"> 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

Item	Description
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: <ul style="list-style-type: none"> 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.

OSPF/SegmentRoutings

批注 [c072811]: Need confirmed by product

This table contains OSPF segment routing information.

XML structure

```

<OSPF>
  <SegmentRoutings>
    <SegmentRouting>
      <Name></Name>
      <MplsEnable></MplsEnable>
      <AdjacencyEnable></AdjacencyEnable>
      <SRGB>
        <Lowerbound></Lowerbound>
        <Upperbound></Upperbound>
      </SRGB>
      <SrPreferEnable></SrPreferEnable>
    </SegmentRouting>
  </SegmentRoutings>
</OSPF>

```



```

    <PrefixListName></PrefixListName>
  </SegmentRouting>
</SegmentRoutings>
</OSPF>

```

Table description

Item	Description
Feature name	OSPF
Table name	SegmentRoutings
Table type	Multi-instance table
Row name	SegmentRouting
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 segmentroutings for it. It must be an unsigned integer in the range of 1 to 65535.
MplsEnable	Whether to enable MPLS SR.	N/A	Boolean: <ul style="list-style-type: none"> true—Enables MPLS SR. false—Does not enable MPLS SR(default). 	N/A
AdjacencyEnable	Whether to enable adjacency label allocation.	N/A	Boolean: <ul style="list-style-type: none"> true—Enables adjacency label allocation. false—Does not enable adjacency label allocation(default). 	N/A
SRGB	Specifies range of SRGB.	Data structure	Members include: <ul style="list-style-type: none"> Lowerbound. Upperbound. 	N/A
Lowerbound	Min value of SRGB.	N/A	Unsigned integer. Value range: 16000 to 23999. Default: 16000.	N/A
Upperbound	Max value of SRGB.	N/A	Unsigned integer. Value range: 16001 to 24000.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Default: 24000.	
SrPreferEnable	Whether to enable SR label preference.	N/A	Boolean: <ul style="list-style-type: none"> true—Enables SR label preference. false—Does not enable SR label preference (default). 	N/A
PrefixListName	Name of the prefix list	N/A	String. Length: 1 to 63 characters.	N/A

OSPF/DistributeBgpIses

This table contains information about OSPF link state advertisement to BGP.

XML structure

```

<OSPF>
  <DistributeBgpIses>
    <DistributeBgpls>
      <Name></Name>
      <TopoId></TopoId>
      <InstanceId></InstanceId>
      <StrictLinkCheck></StrictLinkCheck>
    </DistributeBgpls>
  </DistributeBgpIses>
</OSPF>

```

Table description

Item	Description
Feature name	OSPF
Table name	DistributeBgpIses
Table type	Multi-instance table
Row name	DistributeBgpls
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.	You must create an instance before

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 31 characters.	you merge or create distributebgpls 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.
InstanceId	Instance ID.	N/A	Unsigned integer. Value range: 0 to 65535 Default: 0.	N/A
StrictLinkCheck	Whether to enable strict link checking.	N/A	Boolean: <ul style="list-style-type: none"> true—Enables strict link checking. false—Does not enable strict link checking (default). 	N/A

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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: <ul style="list-style-type: none">• 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.
Areald	Area ID.	Index	String, dotted decimal notation.
AreaType	Area type.	N/A	Enumeration: <ul style="list-style-type: none">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.
Areald	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>

    <PrefixSid>
      <SidName></SidName>
      <SidType></SidType>
      <Sid></Sid>
      <ExplicitNull></ExplicitNull>
      <NFlagClear></NFlagClear>
    </PrefixSid>
  </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: <ul style="list-style-type: none"> Name. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> • Areald. 	
Name	Instance name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Areald	Area ID.	N/A	String, dotted decimal notation.	N/A
ExcludedSubIp	Whether to exclude secondary IP addresses.	N/A	Boolean: <ul style="list-style-type: none"> • true—Excludes secondary IP addresses. • false—Does not exclude secondary IP addresses (default). 	N/A
Cost	Interface cost.	N/A	Unsigned integer. Value range: <ul style="list-style-type: none"> • 0 to 65535 for loopback interfaces. • 1 to 65535 for other interfaces. 	N/A
NetworkType	Interface network type.	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • SimplePwdType. • SimplePwd. 	N/A
SimplePwdType	Simple password type.	N/A	Enumeration: <ul style="list-style-type: none"> • 1—Ciphertext. • 2—Plaintext. 	N/A
SimplePwd	Simple password.	N/A	String. Length: <ul style="list-style-type: none"> • 1 to 8 characters for plain password. • 33 to 41 characters for cipher password. 	N/A
CurAuthType	Enabled authentication mode.	N/A	Enumeration: <ul style="list-style-type: none"> • 1—Simple. • 2—MD5. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> • 3—HMAC-MD5. • 4—HMAC-SHA-256. 	
CurMd5Id	Last key ID.	N/A	Unsigned integer. Value range: 1 to 255.	N/A
State	Interface state.	N/A	Enumeration: <ul style="list-style-type: none"> • 0—Down. • 1—Waiting. • 2—P-2-P. • 3—DR. • 4—BDR. • 5—DROther. • 6—Loopback. 	N/A
BfdEnable	BFD is enabled for OSPF.	N/A	Enumeration: <ul style="list-style-type: none"> • 1—Enable control packet mode. • 2—Enable echo packet mode. 	N/A
PrefixSid	Prefix Segment ID messages.	Data structure	Members include: <ul style="list-style-type: none"> • SidName. • SidType. • Sid. • ExplicitNull. • NFlagClear. 	N/A
SidName	Instance name.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
SidType	The type of Prefix-SID	N/A	Enumeration: <ul style="list-style-type: none"> • 1—Absolute value of Prefix-SID. • 2—Index value of Prefix-SID. 	N/A
Sid	Prefix Segment ID	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
ExplicitNull	Explicit null label	N/A	Boolean: <ul style="list-style-type: none"> • true—The upstream neighbor replaces the prefix SID with an explicit null label. • false—The upstream neighbor does not replace the prefix SID with an explicit null label. 	N/A
NFlagClear	Whether to clear the N-flag	N/A	Boolean: <ul style="list-style-type: none"> • true—Clears the N-flag for the prefix SID. • false—Does not clear the N-flag for the prefix SID. 	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 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: <ul style="list-style-type: none">1—MD5.2—HMAC-MD5.3—HMAC-SHA-256.	N/A
PasswordTy	Password type.	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
pe			<ul style="list-style-type: none"> 1—Ciphertext. 2—Plaintext. 	
Password	Password.	N/A	String. Length: <ul style="list-style-type: none"> 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>

```

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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 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/AsbrSummaries

This table contains OSPF ASBR summary route information.

XML structure

```
<OSPF>
  <AsbrSummaries>
    <AsbrSummary>
      <Name></Name>
      <TopoId></TopoId>
      <Ipv4Address></Ipv4Address>
      <Ipv4Mask></Ipv4Mask>
      <Cost></Cost>
      <NotAdvertise></NotAdvertise>
      <NssaOnly></NssaOnly>
      <Tag></Tag>
    </AsbrSummary>
  </AsbrSummaries>
```


</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 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: <ul style="list-style-type: none">true—Does not advertise summary route.false—Advertises summary route.	N/A
NssaOnly	Limits summary routes to NSSA areas.	N/A	Boolean: <ul style="list-style-type: none">true—Limits summary routes to NSSA areas.false—Does not limit summary routes to NSSA areas.	N/A
Tag	Summary route	N/A	Unsigned integer.	If it is not configured,

Column name	Column description	Column type	Data type and restrictions	Remarks
	tag.		Value range: 0 to 4294967295.	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.

Column name	Column description	Column type	Data type and restrictions
			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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> WaitForBgp. Seconds.
WaitForBgp	Waits for BGP on startup.	N/A	Boolean: <ul style="list-style-type: none"> 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.
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: <ul style="list-style-type: none"> 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
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
Areald	Area ID.	Index	String, dotted decimal notation.	N/A
DefaultRouteAd	Default route	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
vertiseCfg	advertisement messages.	structure	<ul style="list-style-type: none"> DefaultRouteAdvertise. Cost. NssaOnly. PolicyName. Type. 	
DefaultRouteAdvertise	Whether to generate a Type-7 default into the NSSA area.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
Type	Specifies a cost type for the Type-7 LSA.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Does not send summary LSA into the NSSA area. false—Sends summary LSA into the NSSA area. 	N/A
SuppressFa	Whether to	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	suppress the forwarding address in the Type-7 LSAs from being placed in the Type-5 LSAs.		<ul style="list-style-type: none"> 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. 	
Translate	Whether to translate Type-7 LSAs to Type-5 LSAs.	N/A	Enumeration: <ul style="list-style-type: none"> 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

Item	Description
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: <ul style="list-style-type: none"> 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>

```

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: <ul style="list-style-type: none"> 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.

OSPF/SegmentRoutings

This table contains OSPF segment routing information.

XML structure

```

<OSPF>
  <SegmentRoutings>
    <SegmentRouting>
      <Name></Name>
      <MplsEnable></MplsEnable>
      <AdjacencyEnable></AdjacencyEnable>
      <SRGB>
        <Lowerbound></Lowerbound>
        <Upperbound></Upperbound>
      </SRGB>
      <SrPreferEnable></SrPreferEnable>
      <PrefixListName></PrefixListName>
    </SegmentRouting>
  </SegmentRoutings>
</OSPF>

```


Table description

Item	Description
Feature name	OSPF
Table name	SegmentRoutings
Table type	Multi-instance table
Row name	SegmentRouting
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
MplsEnable	Whether to enable MPLS SR.	N/A	Boolean: <ul style="list-style-type: none">true—Enables MPLS SR.false—Does not enable MPLS SR.	N/A
AdjacencyEnable	Whether to enable adjacency label allocation.	N/A	Boolean: <ul style="list-style-type: none">true—Enables adjacency label allocation.false—Does not enable adjacency label allocation.	N/A
SRGB	Specifies range of SRGB.	Data structure	Members include: <ul style="list-style-type: none">Lowerbound.Upperbound.	N/A
Lowerbound	Min value of SRGB.	N/A	Unsigned integer. Value range: 16000 to 23999. Default: 16000.	N/A
Upperbound	Max value of SRGB.	N/A	Unsigned integer. Value range: 16001 to 24000. Default: 24000.	N/A
SrPreferEnable	Whether to enable SR label preference.	N/A	Boolean: <ul style="list-style-type: none">true—Enables SR label preference.false—Does not enable SR label preference.	N/A
PrefixListName	Name of the prefix list.	N/A	String. Length: 1 to 63 characters.	N/A

OSPF/DistributeBgpIses

This table contains information about OSPF link state advertisement to BGP.

XML structure

```
<OSPF>
  <DistributeBgpls>
    <DistributeBgpls>
      <Name></Name>
      <TopoId></TopoId>
      <InstanceId></InstanceId>
      <StrictLinkCheck></StrictLinkCheck>
    </DistributeBgpls>
  </DistributeBgpls>
</OSPF>
```

Table description

Item	Description
Feature name	OSPF
Table name	DistributeBgpls
Table type	Multi-instance table
Row name	DistributeBgpls
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 Default: 0.	N/A
Instanceld	Instance ID.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
StrictLinkCheck	Whether to enable strict link checking.	N/A	Boolean: <ul style="list-style-type: none">true—Enables strict link checking.false—Does not enable strict link checking.	N/A

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OSPF

OSPF/Instances

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
The specified VRF doesn't exist. 指定的VRF不存在。	The specified VRF doesn't exist, when set configuration. 配置时，指定的VRF不存在
The instance is already associated with another VRF. OSPF实例ID已经存在于另一个VRF实例。	The OSPF process has been configured with another VRF. OSPF进程已经配置在另一个VRF实例中。
The specified VRF is deleting. 指定VRF正在被删除。	The specified VRF is deleting, when set configuration. 配置时，指定VRF正在被删除。
The instance is being deleted. OSPF实例正在删除中。	The OSPF process is deleting, when set configuration. 配置时，OSPF进程正在删除中。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can't configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can't configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
Invalid router ID. 无效的Router ID。	The router ID is invalid. Router ID配置不正确。

OSPF/Redistributes

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
RedistName attribute column must be empty when the value of Protocol attribute column is 1,2,or 6 当Protocol属性值为1、2或6时，RedistName属性列必须为空。	RedistName attribute column must be empty when the value of Protocol attribute column is 1,2,or 6, when set configuration. Set操作时，direct/static/bgp协议不能带RedistName参数。
RedistName attribute column is required when the value of Protocol attribute column is 3,4,5 or 7. 当Protocol属性值为3、4、5或7时，RedistName属	RedistName attribute column must be empty when the value of Protocol attribute column is 1,2,or 6, when set configuration. Set操作时，rip/ospf/isis协议必须带RedistName参数。

性列不能为空。	
Import isn't allowed within the same instance. 不允许引入OSPF的当前实例	Can't import the same process. 不能引入自己的进程ID。
The instance doesn't exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can't configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can't configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。

OSPF/Areas

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
The instance doesn't exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can't configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can't configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
The specified area is being deleted. 指定区域正在被删除。	Specified area is being. 区域正在删除。
Can't remove the backbone area when virtual links exist in the backbone area. OSPF骨干区存在虚连接配置。	Virtual link exists in the backbone, backbone cannot be removed. 如果进程下区域存在vlink配置则不允许删除骨干区。
The area doesn't exist. 区域不存在。	No such area. 没有此区域。
The instance is being deleted. OSPF实例正在删除中。	The OSPF process is deleting, when set configuration. 配置时，OSPF进程正在删除中。

The area must be a stub area. 当前区域不是Stub区域。	The area must be a stub area. 区域不是stub，则不许配置。
The stub option is invalid for the backbone area. 骨干区不允许配置stub区域。	Stub option invalid for backbone. 骨干区不允许配置stub。
The area is already configured with a virtual link. Remove the virtual link first. 当前区域配置了虚连接，请先删除虚连接。	The area which is already configured with a virtual link cannot configured stub. 配置vlink区域不允许配置stub。
The area is already configured as an NSSA area. 当前为NSSA区域，不支持配置stub区域。	The area which is already configured with nssa cannot configured stub. Nssa区域不能配置stub。
The nssa option is invalid for the backbone area. 骨干区不允许配置nssa区域。	Nssa option invalid for backbone. 骨干区不允许配置nssa。
The area must be an nssa area. 当前区域不是nssa区域。	The area must be an nssa area. 区域不是nssa，则不许配置。
The area is already configured as a stub area. 当前为stub区域，不支持配置nssa区域。	The area which is already configured with stub cannot configured nssa. stub区域不能配置nssa。

OSPF/Interfaces

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
Name attribute column is required. 需要补齐Name属性列。	Process name is required. 缺少进程名称参数。
Areald attribute column is required. 需要补齐Areald属性列。	Area ID is required. 缺少区域ID参数。
Name and Areald attribute columns are required. 需要补齐Name和Areald属性列。	The interface doesn't enable ospf. 接口没有使能ospf。
Not support Segment Routing configurations. 不支持SR相关配置。	Segment Routing doesn't support. 不支持SR相关配置。
SidName and SidType attribute columns are required. 需要补齐SidName和SidType属性列。	Wrong configuration. 配置错误。
SidType and Sid attribute columns are required. 需要补齐SidType和Sid属性列。	Wrong configuration. 配置错误。
SidName and Sid attribute columns are required. 需要补齐SidName和Sid属性列。	Wrong configuration. 配置错误。
SidType attribute column is required. 需要补齐SidType属性列。	Wrong configuration. 配置错误。
SidName attribute column is required.	Wrong configuration.

需要补齐SidName属性列。	配置错误。
Sid attribute column is required. 需要补齐Sid属性列。	Wrong configuration. 配置错误。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can't configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can't configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
The instance doesn't exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
Another process is enabled in the current interface. 该接口已经使能其他进程，不能进行配置。	Another process is enabled in the current interface. 该接口已经使能其他进程。
The Sid is out of the SRGB range. Sid配置不合法.它的值应该在SRGB范围内。	The Sid is out of the SRGB range. Sid配置的值在SRGB范围外。
The Sid already exists. Sid配置冲突, 该Sid已存在。	The Sid already exists. 该Sid已存在。
Can't set the OSPF cost of a non-loopback interface to 0. 非LoopBack接口不允许配置OSPF的开销值为0。	Can't set the OSPF cost of a non-loopback interface to 0. 非LoopBack接口不允许配置OSPF的开销值为0。
Not support BFD. 不支持BFD。	BFD doesn't support. 不支持BFD。

OSPF/Networks

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
WildcardMask attribute column is required. 需要补齐WildcardMask属性列。	WildcardMask attribute column is required. 获取子网掩码，必须制定掩码。
The network mask isn't contiguous. 网络掩码不连续。	The network mask is wrong. 网络掩码不对。
Network mask doesn't match network address. 网络掩码和当前网络地址不匹配。	The network mask is wrong. 网络掩码不对。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing.	The router is performing nonstop routing, when set configuration.

路由器正在NSR重启。	配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can't configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can't configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
The specified area is being deleted. 指定区域正在被删除。	Specified area is being. 区域正在删除。
The instance doesn't exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
The area doesn't exist. 区域不存在。	No such area. 没有此区域。
The instance is being deleted. OSPF实例正在删除中。	The OSPF process is deleting, when set configuration. 配置时，OSPF进程正在删除中。
Network addresses of Class D and Class E in the format of 127.*.* are not allowed. 127.*.*形式的D类、E类地址不允许配置。	The network address is invalid. 网段不合法。
The network is already set in this instance. 指定网段已在当前实例使能。	The network is already set. 已在本进程使能。
The network is already set in another instance. 指定网段已在其他实例使能。	The network is already set in another process. 已在其他进程使能。
The network overlaps with the previously configured network. 网段配置重叠。	Network is duplicated or is the subset of the previous entry. 不允许配置的网段出现重叠。
Operation not supported. 不支持该操作。	WildcardMask doesn't support delete and remove. 子网掩码不支持delete、remove操作。

OSPF/IfMd5s

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
Operation not supported. 不支持该操作。	Not support operate object without attribute. 不支持操作不带属性的对象。
The interface doesn't exist. 接口不存在。	The interface doesn't exist. 接口不存在。
Md5Type attribute column is required. 需要补齐Md5Type属性列。	Wrong configuration. 配置错误。
PasswordType attribute column is required. 需要补齐PasswordType属性列。	Wrong configuration. 配置错误。

Password attribute column is required. 需要补齐Password属性列	Wrong configuration. 配置错误。
Invalid OSPF authentication password. OSPF认证密码不合法。	Wrong configuration. 配置错误。

OSPF/Neighbours

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。

OSPF/Preferences

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can't configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can't configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
The instance doesn't exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。

OSPF/AsbrSummaries

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。

The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can't configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can't configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
The instance doesn't exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
Can't configure a summary route as a default route on an ASBR. 聚合路由不能配置为缺省路由。	Wrong configuration. 配置错误。
无效的聚合地址。 Invalid summary address.	Wrong configuration. 配置错误。
Invalid network mask. 无效的网络掩码。	Wrong configuration. 配置错误。
The network mask isn't contiguous. 网络掩码不连续。	Wrong configuration. 配置错误。

OSPF/StubRouters

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
ExternalLsa attribute column is required and must be set to true. ExternalLsa属性列需要赋值为true。	Wrong configuration. 配置错误。
SummaryLsa attribute column is required and must be set to true. SummaryLsa属性列需要赋值为true。	Wrong configuration. 配置错误。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can't configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can't configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
The instance doesn't exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。

OSPF/Nssas

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
DefaultRouteAdvertise attribute column is required and must be set to true. DefaultRouteAdvertise属性列需要赋值为true。	Wrong configuration. 配置错误。
The instance doesn't exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can't configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can't configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
The specified area is being deleted. 指定区域正在被删除。	Specified area is being. 区域正在删除。
The area doesn't exist. 区域不存在。	No such area. 没有此区域。
The instance is being deleted. OSPF实例正在删除中。	The OSPF process is deleting, when set configuration. 配置时，OSPF进程正在删除中。
The area is already configured as an NSSA area. 当前为NSSA区域，不支持配置stub区域。	The area which is already configured with nssa cannot configured stub. Nssa区域不能配置stub。
The nssa option is invalid for the backbone area. 骨干区不允许配置nssa区域。	Nssa option invalid for backbone. 骨干区不允许配置nssa。
The area must be an nssa area. 当前区域不是nssa区域。	The area must be an nssa area. 区域不是nssa，则不许配置。
The area is already configured as a stub area. 当前为stub区域，不支持配置nssa区域。	The area which is already configured with stub cannot configured nssa. stub区域不能配置nssa。

OSPF/SilentAllInterfaces

Message	Explanation
OSPF isn't configuration.	OSPF process has not been started.

没有配置OSPF。	OSPF进程没有启动。
The instance doesn't exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can't configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can't configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
The instance is being deleted. OSPF实例正在删除中。	The OSPF process is deleting, when set configuration. 配置时，OSPF进程正在删除中。

OSPF/SilentInterfaces

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
The instance doesn't exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can't configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can't configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
The instance is being deleted. OSPF实例正在删除中。	The OSPF process is deleting, when set configuration. 配置时，OSPF进程正在删除中。

OSPF/SegmentRoutings

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
Not support Segment Routing configurations. 不支持SR相关配置。	Segment Routing doesn't support. 不支持SR相关配置。
The instance doesn't exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can't configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can't configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。
Opaque-Capability is not enabled. Opaque-Capability 未使能。	Opaque-Capability is not enabled. Opaque-Capability 未使能。
The maximum value must be greater than the minimum value. 最大值一定要大于最小值。	Wrong configuration. 配置错误。
The SRGB is invalid. It must contain the configured prefix SIDs. SRGB配置不合法.它的配置范围应该包含已配置的前缀标签值。	Wrong configuration. 配置错误。
Lowerbound attribute column is required. 需要补齐Lowerbound属性列。	Wrong configuration. 配置错误。
Upperbound attribute column is required. 需要补齐Lowerbound属性列。	Wrong configuration. 配置错误。
The value of Lowerbound is invalid.The value must be in %u to %u. Lowerbound的值非法，该值有效范围是%u - %u。	Wrong configuration. 配置错误。
The value of Upperbound is invalid.The value must be in %u to %u. Upperbound的值非法，该值有效范围是%u - %u。	Wrong configuration. 配置错误。
SrPreferEnable属性列需要赋值为true。 SrPreferEnable attribute column is required and must be set to true.	Wrong configuration. 配置错误。

OSPF/DistributeBgpIses

Message	Explanation
OSPF isn't configuration. 没有配置OSPF。	OSPF process has not been started. OSPF进程没有启动。
The instance doesn't exist. 配置实例不存在。	No such process exists. 配置的ospf进程不存在。
The router is in smooth state. 路由器在平滑启动状态。	The router is smoothing, when set configuration. 配置时，路由器正在平滑启动阶段。
The router is performing nonstop routing. 路由器正在NSR重启。	The router is performing nonstop routing, when set configuration. 配置时，路由器正在进行NSR重启。
The router is performing Graceful Restart or normal restart. 路由器正在平滑或正在重启。	The router is performing Graceful Restart or normal restart, when set configuration. 配置时，路由器正在平滑或正在重启。
Can't configure the router while it is performing an active/standby switchover. 路由器正在主备进程倒换不能进行配置。	Can't configure the router while it is upgrading. 路由器正处于升级平滑阶段，不允许配置。

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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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 imge file.	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 1—activate. 2—deactivate. 	N/A
ImageFiles	Feature image files list to handle.	Data structure	Members include: <ul style="list-style-type: none"> 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.		<ul style="list-style-type: none"> true false 	specify default is false.
DeviceNode	Specify a target node of the system.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true • false 	Optional column, if not specify default is false.
DeleteIPEFile	Whether delete the .ipe image package file after decompressing it.	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> true false 	Optional column, if not specify default is false.
DeleteIPEFile	Whether delete the .ipe image package file after decompressing it.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 timeout time for an ISSU operation.		Unsigned integer. Value range: 0 to 120. Unit: minute.	Setting this field to 0 disables automatic rollback. The value for this field takes effect only on one ISSU operation. If this field is not set for an ISSU operation, the automatic rollback timer set by using the issu rollback-timer command (45 minutes by default) is used.
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: <ul style="list-style-type: none"> true false 	Optional column, if not specify default is false.
DeleteIPEFile	Whether delete the .ipe image package file after decompress it.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false 	Optional column, if not specify default is false.
DeleteIPEFile	Whether delete the .ipe image package file after decompress it.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	Remaining time of the rollback timer for an ISSU operation.	N/A	Unsigned integer. Value range: 0 to 120.	If no ISSU operation is in progress, this field displays the value set by using the issu rollback-timer command.
Status	Upgrading status of the system.	N/A	Enumeration: <ul style="list-style-type: none"> 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 6144 characters.	Usefully only in failure. For relevant information, see the XSD document of your product
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	Multi-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.

Column name	Column description	Column type	Data type and restrictions	Remarks
Type	Specify the type of this .bin image file.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	Muti-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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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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L3vpn/L3vpnIf	1
L3vpn/L3vpnRT	1
L3vpn/L3vpnPeer	2

Package

L3vpn/L3vpnVRF

Message	Explanation
The VRF instance is being deleted.	The specified VRF is being deleted, when replacing or deleting it.
The VRF instance already has an RD.	Configuration already exists, when set new configuration.
RouteThreshold and SimplyAlert can't both be null.	Invalid configuration.
Can't connect to an L3VPN process.	Operation failed when L3VPN process has not been started.
IPv4 route limit is exceeded.	Invalid configuration, please modify configuration under the guidance.
IPv6 route limit is exceeded.	Invalid configuration, please modify configuration under the guidance.
The IPv4 route limit cannot be 0.	Invalid configuration, please modify configuration under the guidance.
The IPv6 route limit cannot be 0.	Invalid configuration, please modify configuration under the guidance.
Route distinguisher format error.	Invalid configuration, please modify configuration under the guidance.

L3vpn/L3vpnIf

Message	Explanation
The interface is already bound to another VRF instance.	The specified configuration is already existed, when creating a new configuration.
The interface doesn't exist.	The specified interface is not existed.
Failed to allocate memory.	No enough resource, please check your device.
Configurations on the interface ware already removed.	When configurations take effect, some other configurations on the interface will be removed.
The interface is not supported.	The specified interface is not supported.

L3vpn/L3vpnRT

Message	Explanation
NULL	NULL

L3vpn/L3vpnPeer

Message	Explanation
The VPN peer does not exist.	The specified VPN peer does not exist, when deleting or removing.
The VPN peer ID cannot be modified.	The specified VPN peer ID cannot be modified.
The VPN peer ID has been used.	The specified VPN peer ID has been used.
VPN peer ID and profile-name do not have default value, must be empty.	The specified configuration must be empty, when deleting or removing.

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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 80 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
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
Type	History password record type.	N/A	Enumeration: <ul style="list-style-type: none"> 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 80 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	N/A	This column must be empty.

Column name	Column description	Column type	Data type and restrictions
	password records for the specified user role.		

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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> State. MinLength. 	N/A
State	Whether to enable the minimum password length restriction feature.	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	Default: true.
MinLength	Minimum password length.	N/A	Unsigned integer. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> State. TypeNumber. PerTypeLen. 	N/A
State	Whether to enable the password composition restriction feature.	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	Default: true.
TypeNumber	Minimum number of character types	N/A	Unsigned integer. <ul style="list-style-type: none"> In non-FIPS mode, the value range is 1 to 4. 	In non-FIPS mode, the default value is 1. In FIPS mode, the

Column name	Column description	Column type	Data type and restrictions	Remarks
	that a password must contain.		<ul style="list-style-type: none"> In FIPS mode, the value must be 4. 	default value is 4.
PerTypeLen	Minimum number of characters from each character type in a password.	N/A	Unsigned integer. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> State. AgingTime. 	N/A
State	Whether a password expires.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> State. MaxHistoryNumber. 	N/A
State	Whether the device records previous passwords.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true. false. 	Default: false.
AlertTime	Number of days before a user password expires during which the user is notified of the pending password	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
	expiration.			
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	Default: 1 minute.

Column name	Column description	Column type	Data type and restrictions	Remarks
			This column takes effect only when the value of the Action column is 1 and the FailTimes column is set.	

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	No

deletion	
----------	--

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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">true.false.	Default: false.
MinLength	Minimum password length.	N/A	Unsigned integer. <ul style="list-style-type: none">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: <ul style="list-style-type: none">TypeNumber.PerTypeLen.	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. <ul style="list-style-type: none">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. <ul style="list-style-type: none">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: <ul style="list-style-type: none">FailTimes.Action.LockTime.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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 80 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true. false. 	Default: false.
MinLength	Minimum password length.	N/A	Unsigned integer. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
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. <ul style="list-style-type: none"> In non-FIPS mode, the value range is 4 to 63 characters. In FIPS mode, the value range is 15 to 63 characters. 	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> TypeNumber. PerTypeLen. 	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. <ul style="list-style-type: none"> In non-FIPS mode, the value range is 1 to 4. In FIPS mode, the value must be 4. 	<ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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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XML structure	12
Table description	12
Columns	12

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: <ul style="list-style-type: none"> true. false. 	N/A
Length	Minimum password length restriction policy.	Data structure	Members include: <ul style="list-style-type: none"> State. MinLength. 	N/A
State	Whether to enable the minimum password length restriction feature.	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	N/A
MinLength	Minimum password length.	N/A	Unsigned integer. <ul style="list-style-type: none"> 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. 	N/A
Composition	Password composition restriction policy.	Data structure	Members include: <ul style="list-style-type: none"> State. TypeNumber. PerTypeLen. 	N/A
State	Whether to enable the password composition restriction feature.	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. <ul style="list-style-type: none"> In non-FIPS mode, the value range is 1 to 4. In FIPS mode, the value must be 4. 	N/A

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. <ul style="list-style-type: none"> In non-FIPS mode, the value range is 1 to 63. In FIPS mode, the value range is 1 to 15. 	N/A
Aging	Password expiration policy.	Data structure	Members include: <ul style="list-style-type: none"> State. AgingTime. 	N/A
State	Whether a password expires.	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	N/A
AgingTime	Password expiration time.	N/A	Unsigned integer. Value range: 1 to 365, in days.	N/A
History	Password history record policy.	Data structure	Members include: <ul style="list-style-type: none"> State. MaxHistoryNumber. 	N/A
State	Whether the device records previous passwords.	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	N/A
MaxHistoryNumber	Maximum number of history password records for each user.	N/A	Unsigned integer. Value range: 2 to 15.	N/A
CheckSameChar	Whether to refuse a password that contains any character appearing consecutively three or more times.	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	N/A
CheckUsername	Whether to refuse the username or the reverse of the username to appear in the user's password.	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	N/A
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.	N/A
IdleTime	Maximum	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	account idle time.		Value range: 0 to 365, in days. The value 0 indicates that there is no restriction for the account idle time.	
UpdateInterval	Minimum password update interval.	N/A	Unsigned integer. Value range: 0 to 168, in hours.	N/A
Expired	Maximum number of days and maximum number of times that a user can log in after the password expires.	Data structure	Members include: <ul style="list-style-type: none"> 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.	N/A
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.	N/A
Attempt	Login attempt limit information.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	N/A
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	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			column is set.	

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.

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: <ul style="list-style-type: none"> true. false. 	N/A
CheckUsername	Whether to refuse the username or the reverse of the username to appear in the user's password.	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	N/A
MinLength	Minimum password length.	N/A	Unsigned integer. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> TypeNumber. PerTypeLen. 	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> FailTimes. Action. LockTime. 	N/A
FailTimes	Maximum number of consecutive login	N/A	Unsigned integer. Value range: 2 to 10.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	failures.			
Action	An action to be taken for the user who fails to log in after making the maximum number of attempts.	N/A	Enumeration: <ul style="list-style-type: none"> • 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.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
UserName	User name.	Index	String, case-sensitive. Length: 1 to 80 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: <ul style="list-style-type: none"> true. false. 	N/A
CheckUserName	Whether to refuse the username or the reverse of the username to appear in the user's password.	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	N/A
MinLength	Minimum password length.	N/A	Unsigned integer. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> TypeNumber. PerTypeLen. 	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. <ul style="list-style-type: none"> In non-FIPS mode, the value range is 1 to 4. In FIPS mode, the value must be 4. 	N/A

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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none">In non-FIPS mode, the value range is 4 to 63 characters.In FIPS mode, the value range is 15 to 63 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: <ul style="list-style-type: none">TypeNumber.PerTypeLen.	N/A
TypeNumber	Minimum number of character types that a password must contain.	N/A	Unsigned integer. <ul style="list-style-type: none">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. <ul style="list-style-type: none">In non-FIPS mode, the value range is 1 to 63.In FIPS mode, the value range is 1 to 15.	N/A

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 80 characters.	Only support device management users.
IpType	IP address type.	Index	Enumeration: <ul style="list-style-type: none">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
LockState	Whether the user account is disabled for the user.	N/A	Enumeration: <ul style="list-style-type: none">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	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			Attempt column in the table PasswordControl/GlobalConfig, PasswordControl/UserGroups, or PasswordControl/Users.	

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	N/A	Unsigned integer. <ul style="list-style-type: none"> In FIPS mode, the value is 15. In non-FIPS mode, the value is 4. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	/UserGroups, PasswordControl /Users, and PasswordControl /Super.			
MinTypeNumber	Minimum value for the TypeNumber column in the tables PasswordControl /GlobalConfig, PasswordControl /UserGroups, PasswordControl /Users, and PasswordControl /Super.	N/A	Unsigned integer. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> In FIPS mode, the value is 15. In non-FIPS mode, the value is 63. 	N/A

Contents

- PasswordControl.....1
 - PasswordControl/GlobalConfig.....1
 - PasswordControl/UserGroups.....1
 - PasswordControl/Users.....1

PasswordControl

PasswordControl/GlobalConfig

Message	Explanation
The product of type-number and type-length cannot be greater than the maximum password length value.	The product of type-number and type-length cannot be greater than the maximum password length value. Please check your input.
Failed to enable password control.	Failed to enable password control.
This feature can't be disabled when system is in FIPS mode.	This feature can't be disabled when system is in FIPS mode.

PasswordControl/UserGroups

Message	Explanation
The product of type-number and type-length cannot be greater than the maximum password length value.	The product of type-number and type-length cannot be greater than the maximum password length value. Please check your input.

PasswordControl/Users

Message	Explanation
The product of type-number and type-length cannot be greater than the maximum password length value.	The product of type-number and type-length cannot be greater than the maximum password length value. Please check your input.

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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>
      <Description></Description>
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
      <MatchVxlanID></MatchVxlanID>
      <MatchPacketLenMin></MatchPacketLenMin>
      <MatchPacketLenMax></MatchPacketLenMax>
      <ApplyPrecedence></ApplyPrecedence>
      <ApplyIPDF></ApplyIPDF>
      <ApplyRemarkVPN></ApplyRemarkVPN>
      <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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 1—Permit (default). • 2—Deny. 	N/A
Description	Description of the policy node	N/A	String, case sensitive. Length: 1 to 127 characters.	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.
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. 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
MatchPacketLen Min	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

Column name	Column description	Column type	Data type and restrictions	Remarks
				the device 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 0—Allows packet fragmentation. • 1—Prohibits packet fragmentation. 	Support for this function depends on the device model.
ApplyRemarkVPN	Remarks the VPN instance for packets	N/A	Boolean: true false (default).	This function takes effects only when apply access-vpn is configured. 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">• 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Next hop mode.	Index	Enumeration: <ul style="list-style-type: none"> • 0—Next hop. • 1—Default next hop. • 2—Mirroring next hop. 	Mirroring next hop not support NexthopDirect column.
VrfIndex	Index of the VPN instance.	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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 IfIndex, see IfMgr in

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 	N/A
PolicyName	Policy name.	Index	String, case sensitive. Length: 1 to 19	The specified policy must already exist.

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	
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.	Some versions support VRF name. For relevant information, see the XSD document of your product.

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.
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: <ul style="list-style-type: none">• 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.
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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 	IPv6 is not supported.

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.
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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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/PBRApplyFailActionDrop

This table contains PBR failure action drop information.

XML structure

```

<PBR>
  <PBRApplyFailActionDrop>
    <ApplyFailActionDrop>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <Drop></Drop>
    </ApplyFailActionDrop>
  </PBRApplyFailActionDrop>
</PBR>

```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyFailActionDrop
Table type	Multi-instance table

Row name	ApplyFailActionDrop
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Next hop. 	N/A
Drop	Whether to drop matching packets when all next hops specified by column Mode become unreachable.	N/A	Boolean: <ul style="list-style-type: none"> true. false(default). 	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>
      <Description></Description>
      <ACLNumber></ACLNumber>
      <ACLName></ACLName>
      <MatchVxlanID></MatchVxlanID>
      <MatchPacketLenMin></MatchPacketLenMin>
      <MatchPacketLenMax></MatchPacketLenMax>
      <ApplyPrecedence></ApplyPrecedence>
      <ApplyIPDF></ApplyIPDF>
      <ApplyRemarkVPN></ApplyRemarkVPN>
      <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
			<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 1—Permit. • 2—Deny. 	N/A
Description	Description of the policy node	N/A	String, case sensitive. Length: 1 to 127 characters.	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
MatchPacketLen Min	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.
MatchPacketLen Max	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: <ul style="list-style-type: none"> • 0—Routine. • 1—Priority. • 2—Immediate. • 3—Flash. • 4—Flash-override. • 5—Critical. 	Support for this function depends on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 6—Internet. 7—Network. 	
ApplyIPDF	Sets the Don't Fragment (DF) bit in the IP header of matching packets.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Allows packet fragmentation. 1—Prohibits packet fragmentation. 2—DF bit is not set. 	Support for this function depends on the device model.
ApplyRemarkVPN	Remarks the VPN instance for packets	N/A	Boolean: <ul style="list-style-type: none"> true—Apply. false—Not apply. 	This function takes effects only when apply access-vpn is configured. 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 0—Next hop. • 1—Default next hop. • 2—Mirroring next hop. 	Mirroring next hop not support NexthopDirect column.
VrfIndex	Index of the VPN instance.	Index	Unsigned integer.	Some versions support VRF name. For relevant information, see the XSD document of your product. 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: <ul style="list-style-type: none"> • true—Apply. • false—Not apply. 	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>
      <Priority></Priority>
      <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.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type.	Index	Enumeration: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 0—Output interface.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 1—Default output interface. 	
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.
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: <ul style="list-style-type: none"> 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.	Some versions support VRF name. For relevant information, see the XSD document of your product.
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: <ul style="list-style-type: none">0—IPv4.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 1—IPv6. 	
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: <ul style="list-style-type: none"> 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/PBRSpecification

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
SupportInboundVPNIpv4	Support for specifying the IPv4 VPN instance where the inbound interface belongs.	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportOnlyNull0Ipv4	Supports only the NULL 0 interface as the IPv4 output interface.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A
SupportPacketLenIpv4	Support for IPv4 packet length match criteria.	N/A	Boolean: <ul style="list-style-type: none"> true—Support. false—Not support. 	N/A

SupportPrecedenceIpv4	Support for setting the precedence for IPv4 packets.	N/A	Boolean: <ul style="list-style-type: none"> • true—Support. • false—Not support. 	N/A
SupportContinueIpv4	Support for comparing IPv4 packets with the next node upon failure on the current node.	N/A	Boolean: <ul style="list-style-type: none"> • true—Support. • false—Not support. 	N/A
SupportNextHopIpv4	Support for IPv4 next hops.	N/A	Boolean: <ul style="list-style-type: none"> • true—Support. • false—Not support. 	N/A
SupportDefaultNextHopIpv4	Support for IPv4 default next hops.	N/A	Boolean: <ul style="list-style-type: none"> • true—Support. • false—Not support. 	N/A
SupportInterfaceIpv4	Support for IPv4 output interfaces.	N/A	Boolean: <ul style="list-style-type: none"> • true—Support. • false—Not support. 	N/A
SupportDefaultInterfaceIpv4	Support for IPv4 default output interfaces.	N/A	Boolean: <ul style="list-style-type: none"> • true—Support. • false—Not support. 	N/A
SupportAccessVPNIpv4	Support for IPv4 VPN instances.	N/A	Boolean: <ul style="list-style-type: none"> • true—Support. • false—Not support. 	N/A
SupportInboundVPNIpv6	Support for specifying the IPv6 VPN instance where the inbound interface belongs.	N/A	Boolean: <ul style="list-style-type: none"> • true—Support. • false—Not support. 	N/A
SupportOnlyNull0Ipv6	Supports only the NULL 0 interface as the IPv6 output interface.	N/A	Boolean: <ul style="list-style-type: none"> • true—Support. • false—Not support. 	N/A
SupportPacketLengthIpv6	Support for IPv6 packet length match criteria.	N/A	Boolean: <ul style="list-style-type: none"> • true—Support. • false—Not support. 	N/A
SupportPrecedenceIpv6	Support for setting the precedence for IPv6 packets.	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true—Support. • false—Not support. 	N/A
SupportNextHopIpv6	Support for IPv6 next hops.	N/A	Boolean: <ul style="list-style-type: none"> • true—Support. • false—Not support. 	N/A
SupportDefaultNextHopIpv6	Support for IPv6 default next hops.	N/A	Boolean:	N/A

6			<ul style="list-style-type: none"> • true—Support. • false—Not support. 	
SupportInter faceIpv6	Support for IPv6 output interfaces.	N/A	Boolean: <ul style="list-style-type: none"> • true—Support. • false—Not support. 	N/A
SupportDefl nterfaceIpv6	Support for IPv6 default output interfaces.	N/A	Boolean: <ul style="list-style-type: none"> • true—Support. • false—Not support. 	N/A
SupportAcc essVPNIpv6	Support for IPv6 VPN instances.	N/A	Boolean: <ul style="list-style-type: none"> • true—Support. • false—Not support. 	N/A
MaxNodeID Ipv4	Maximum number of IPv4 nodes.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
MaxNodeID Ipv6	Maximum number of IPv6 nodes.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
MaxNextHo pIpv4	Maximum number of IPv4 next hops or default next hops.	N/A	Unsigned integer.	N/A
MaxInterfac eIpv4	Maximum number of IPv4 output interfaces or default output interfaces.	N/A	Unsigned integer.	N/A
MaxAccess VPNIpv4	Maximum number of IPv4 VPN instances.	N/A	Unsigned integer.	N/A
MaxNextHo pIpv6	Maximum number of IPv6 next hops or default next hops.	N/A	Unsigned integer.	N/A
MaxInterfac eIpv6	Maximum number of IPv6 output interfaces or default output interfaces.	N/A	Unsigned integer.	N/A
MaxAccess VPNIpv6	Maximum number of IPv6 VPN instances.	N/A	Unsigned integer.	N/A
SupportApp GroupIpv4	Support for IPv4 application group.	N/A	Boolean: <ul style="list-style-type: none"> • true—Support. • false—Not support. 	N/A
SupportObje ctGroupIpv4	Support for IPv4 object group.	N/A	Boolean: <ul style="list-style-type: none"> • true—Support. • false—Not support. 	N/A
MaxAppGro upIpv4	Maximum number of IPv4 application group.	N/A	Unsigned integer.	N/A
MaxObjectG roupIpv4	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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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

Column name	Column description	Column type	Data type and restrictions	Remarks
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>
  </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: <ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 	IPv6 is not supported.

Column name	Column description	Column type	Data type and restrictions	Remarks
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/PBRApplyFailActionDrop

This table contains PBR failure action drop information.

XML structure

```

<PBR>
  <PBRApplyFailActionDrop>
    <ApplyFailActionDrop>
      <AddressType></AddressType>
      <PolicyName></PolicyName>
      <NodeID></NodeID>
      <Mode></Mode>
      <Drop></Drop>
    </ApplyFailActionDrop>
  </PBRApplyFailActionDrop>
</PBR>

```

Table description

Item	Description
Feature name	PBR
Table name	PBRApplyFailActionDrop
Table type	Multi-instance table
Row name	ApplyFailActionDrop
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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 0—Next hop. 	N/A
Drop	Whether to drop matching packets when all next hops specified by column Mode become unreachable.	N/A	Boolean: <ul style="list-style-type: none"> • true. • false. 	N/A

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PBR

PBR/PBRPolicyNode

Message	Explanation
Maximum number of policies already reached. 可配策略个数超过上限。	Maximum number of policies already reached. 可配策略个数超过上限。
Maximum number of nodes in a policy already reached. 一个策略中可配最大节点个数超过上限。	Maximum number of nodes in a policy already reached. 一个策略中可配最大节点个数超过上限。
The policy doesn't exist. 该策略不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
The policy has been referenced, and can't be deleted. 此策略已经被引用，不能删除。	The policy has been referenced, and can't be deleted. 此策略已经被引用，不能删除。
Configuration items don't meet the requirements. 不符合配置要求。	Configuration items don't meet the requirements, please check the configuration of packet length or ACL is valid. 不符合配置要求，请检查配置的需要匹配的报文长度或者配置的AC是否合理。
The minimum packet length must be less than or equal to the maximum packet length. 配置的最短IP报文长度必须小于或等于最长IP报文长度。	The minimum packet length must be less than or equal to the maximum packet length. 配置的最短IP报文长度必须小于或等于最长IP报文长度。
IPv6 PBR doesn't support packet fragmentation. IPv6策略路由不支持报文分片。	IPv6 PBR doesn't support packet fragmentation. IPv6策略路由不支持报文分片。
The policy node doesn't exist. 该策略节点不存在。	The policy node doesn't exist. 该策略节点不存在。
Invalid ACL name. 非法的ACL名称。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。

PBR/PBRIfPolicy

Message	Explanation
The operation is not supported in chassis %s slot %u. 在框号%s板号%u的设备上不支持此操作。	The operation is not supported. 此操作不支持。
Not enough resources to complete the operation in chassis %s slot %u. 在框号%s板号%u的设备上没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。
The operation is not supported in slot %u.	The operation is not supported.

在板号%u的设备上不支持此操作。	此操作不支持。
Not enough resources to complete the operation in slot %u. 在板号%u的设备上没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。
The operation is not supported. 不支持此操作。	The operation is not supported. 此操作不支持。
Not enough resources to complete the operation. 没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。
Not enough resources to complete the operation in chassis %s slot %u cpu %u. 在框号%s板号%uCPU%u的设备上没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。
The operation is not supported in chassis %u slot %u cpu %s. 在框号%s板号%uCPU%u的设备上不支持此操作。	The operation is not supported. 此操作不支持。
Not enough resources to complete the operation in slot %u cpu %u. 在板号%uCPU%u的设备上没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。
The operation is not supported in slot %u cpu %u. 在板号%uCPU%u的设备上不支持此操作。	The operation is not supported. 此操作不支持。
PBR is not ready in chassis %s slot %u. 在框号%s板号%u的设备上策略路由进程未启动完毕。	PBR service has not been started. PBR进程尚未启动完成。
PBR is not ready in chassis %s slot %u cpu %u. 在框号%s板号%uCPU%u的设备上策略路由进程未启动完毕。	PBR service has not been started. PBR进程尚未启动完成。
PBR is not ready in slot %u. 在板号%u的设备上策略路由进程未启动完毕。	PBR service has not been started. PBR进程尚未启动完成。
PBR is not ready in slot %u cpu %u. 在板号%uCPU%u的设备上策略路由进程未启动完毕。	PBR service has not been started. PBR进程尚未启动完成。
Failed to apply the PBR policy to chassis %s slot %u. 在框号%s板号%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy to slot %u. 在板号%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy to chassis %s slot %u cpu %u. 在框号%s板号%uCPU%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy to slot %u cpu %u. 在板号%uCPU%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy.	Failed to apply the PBR policy.

应用策略路由失败。	应用策略路由失败。
The operation is not ready in chassis %s slot %u. 在框号%s板号%u的设备上驱动资源未准备完毕。	The drive resources are not ready. 驱动资源未准备完毕。
The operation is not ready in slot %u. 在板号%u的设备上驱动资源未准备完毕。	The drive resources are not ready. 驱动资源未准备完毕。
The operation is not ready in chassis %s slot %u cpu %u. 在框号%s板号%uCPU%u的设备上驱动资源未准备完毕。	The drive resources are not ready. 驱动资源未准备完毕。
The operation is not ready in slot %u cpu %u. 在板号%uCPU%u的设备上驱动资源未准备完毕。	The drive resources are not ready. 驱动资源未准备完毕。
The operation is not ready. 驱动资源未准备完毕。	The drive resources are not ready. 驱动资源未准备完毕。
Configuration items don't meet the requirements. 不符合配置要求。	During executing configuration operation(create、merge、replace、delete or remove) or get operation, policy name must be configured. The specified configuration must be empty, when deleting or removing. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，策略名称必须配置；删除时指定配置必须为空。
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
Another policy has been applied. Please remove the current policy first. 已经应用了另一个策略，请先取消已经应用的策略。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。

PBR/PBREgressIfPolicy

Message	Explanation
The operation is not supported in chassis %s slot %u. 在框号%s板号%u的设备上不支持此操作。	The operation is not supported. 此操作不支持。
Not enough resources to complete the operation in chassis %s slot %u. 在框号%s板号%u的设备上没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。
The operation is not supported in slot %u. 在板号%u的设备上不支持此操作。	The operation is not supported. 此操作不支持。
Not enough resources to complete the operation in slot %u. 在板号%u的设备上没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。
The operation is not supported. 不支持此操作。	The operation is not supported. 此操作不支持。
Not enough resources to complete the operation. 没有足够的资源完成此操作。	No enough resource, please check your device. 资源不足，请检查设备。

<p>Not enough resources to complete the operation in chassis %s slot %u cpu %u.</p> <p>在框号%s板号%uCPU%u的设备上没有足够的资源完成此操作。</p>	<p>No enough resource, please check your device.</p> <p>资源不足，请检查设备。</p>
<p>The operation is not supported in chassis %u slot %u cpu %s.</p> <p>在框号%s板号%uCPU%u的设备上不支持此操作。</p>	<p>The operation is not supported.</p> <p>此操作不支持。</p>
<p>Not enough resources to complete the operation in slot %u cpu %u.</p> <p>在板号%uCPU%u的设备上没有足够的资源完成此操作。</p>	<p>No enough resource, please check your device.</p> <p>资源不足，请检查设备。</p>
<p>The operation is not supported in slot %u cpu %u.</p> <p>在板号%uCPU%u的设备上不支持此操作。</p>	<p>The operation is not supported.</p> <p>此操作不支持。</p>
<p>PBR is not ready in chassis %s slot %u.</p> <p>在框号%s板号%u的设备上策略路由进程未启动完毕。</p>	<p>PBR service has not been started.</p> <p>PBR进程尚未启动完成。</p>
<p>PBR is not ready in chassis %s slot %u cpu %u.</p> <p>在框号%s板号%uCPU%u的设备上策略路由进程未启动完毕。</p>	<p>PBR service has not been started.</p> <p>PBR进程尚未启动完成。</p>
<p>PBR is not ready in slot %u.</p> <p>在板号%u的设备上策略路由进程未启动完毕。</p>	<p>PBR service has not been started.</p> <p>PBR进程尚未启动完成。</p>
<p>PBR is not ready in slot %u cpu %u.</p> <p>在板号%uCPU%u的设备上策略路由进程未启动完毕。</p>	<p>PBR service has not been started.</p> <p>PBR进程尚未启动完成。</p>
<p>Failed to apply the PBR policy to chassis %s slot %u.</p> <p>在框号%s板号%u的设备上应用策略路由失败。</p>	<p>Failed to apply the PBR policy.</p> <p>应用策略路由失败。</p>
<p>Failed to apply the PBR policy to slot %u.</p> <p>在板号%u的设备上应用策略路由失败。</p>	<p>Failed to apply the PBR policy.</p> <p>应用策略路由失败。</p>
<p>Failed to apply the PBR policy to chassis %s slot %u cpu %u.</p> <p>在框号%s板号%uCPU%u的设备上应用策略路由失败。</p>	<p>Failed to apply the PBR policy.</p> <p>应用策略路由失败。</p>
<p>Failed to apply the PBR policy to slot %u cpu %u.</p> <p>在板号%uCPU%u的设备上应用策略路由失败。</p>	<p>Failed to apply the PBR policy.</p> <p>应用策略路由失败。</p>
<p>Failed to apply the PBR policy.</p> <p>应用策略路由失败。</p>	<p>Failed to apply the PBR policy.</p> <p>应用策略路由失败。</p>
<p>The operation is not ready in chassis %s slot %u.</p> <p>在框号%s板号%u的设备上驱动资源未准备完毕。</p>	<p>The drive resources are not ready.</p> <p>驱动资源未准备完毕。</p>
<p>The operation is not ready in slot %u.</p> <p>在板号%u的设备上驱动资源未准备完毕。</p>	<p>The drive resources are not ready.</p> <p>驱动资源未准备完毕。</p>
<p>The operation is not ready in chassis %s slot %u cpu %u.</p> <p>在框号%s板号%uCPU%u的设备上驱动资源未准备完毕。</p>	<p>The drive resources are not ready.</p> <p>驱动资源未准备完毕。</p>

The operation is not ready in slot %u cpu %u. 在板号%uCPU%u的设备上驱动资源未准备完毕。	The drive resources are not ready. 驱动资源未准备完毕。
The operation is not ready. 驱动资源未准备完毕。	The drive resources are not ready. 驱动资源未准备完毕。
Configuration items don't meet the requirements. 不符合配置要求。	During executing configuration operation(create、merge、replace、delete or remove) or get operation, policy name must be configured. The specified configuration must be empty, when deleting or removing. 当执行配置操作（包括create、merge、release、delete和remove）和获取操作时，策略名必须配置；删除时指定配置必须为空。
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
Another policy has been applied. Please remove the current policy first. 已经应用了另一个策略，请先取消已经应用的策略。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。

PBR/PBRLocalPolicy

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
Failed to apply the PBR policy to chassis %s slot %u. 在框号%s板号%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy to slot %u. 在板号%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy to chassis %s slot %u cpu %u. 在框号%s板号%uCPU%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy to slot %u cpu %u. 在板号%uCPU%u的设备上应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Failed to apply the PBR policy. 应用策略路由失败。	Failed to apply the PBR policy. 应用策略路由失败。
Another policy has been applied. Please remove the current policy first. 已经应用了另一个策略，请先取消已经应用的策略。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。

PBR/PBRApplyAccessVPN

Message	Explanation
The policy node doesn't exist.	The policy doesn't exist, please create the policy first.

该策略节点不存在。	该策略不存在，请先创建。
Configuration items don't meet the requirements. 不符合配置要求。	Configuration items don't meet the requirements, public network of vpn can't be configured, please modify configuration. 不符合配置要求，公网 VPN 不可配置，请修改配置
Maximum number of VRFs already reached. VRF个数超过上限。	Maximum number of VRFs already reached. VRF个数超过上限。
The VRF doesn't exist. 该VRF不存在。	The specified VRF is not existed. 该VRF不存在。

PBR/PBRApplyNextHop

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
The VRF doesn't exist. 该VRF不存在。	The VRF doesn't exist. 该VRF不存在。
Invalid IPv4 address. 非法的IPv4地址。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。
Invalid IPv6 address. 非法的IPv6地址。	Invalid configuration, please modify configuration under the guidance. 配置无效，请在指导下修改配置。
Maximum number of next hops already reached. 下一跳个数超过上限。	Maximum number of next hops already reached. 下一跳个数超过上限。
Maximum number of default next hops already reached. 缺省下一跳个数超过上限。	Maximum number of default next hops already reached. 缺省下一跳个数超过上限。

PBR/PBRApplyOutInterface

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
Maximum number of output interfaces already reached. 出接口个数超过上限。	Maximum number of output interfaces already reached. 出接口个数超过上限。
Maximum number of default output interfaces already reached. 缺省出接口个数超过上限。	Maximum number of default output interfaces already reached. 缺省出接口个数超过上限。

PBR/PBRApplicationGroup

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
Number of application groups exceeded the limit. 应用组个数超过上限。	Number of application groups exceeded the limit. 应用组个数超过上限。
Invalid application group name. 非法的应用组名称。	Invalid application group name. 非法的应用组名称。

PBR/PBRObjectGroup

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。
Number of object groups exceeded the limit. 服务对象组个数超过上限。	Number of object groups exceeded the limit. 服务对象组个数超过上限。
The object group is not a service object group. 对象组不是服务对象组。	The object group is not a service object group. 对象组不是服务对象组。

PBR/PBRMatchServiceChain

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。

PBR/PBRApplyServiceChain

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。

PBR/PBRApplyFailActionDrop

Message	Explanation
The policy node doesn't exist. 该策略节点不存在。	The policy doesn't exist, please create the policy first. 该策略不存在，请先创建。

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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: <ul style="list-style-type: none">ACLType.ACLNumber.
ACLType	ACL type.	N/A	Enumeration: <ul style="list-style-type: none">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: <ul style="list-style-type: none">• 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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- PCAPWARE1
 - PCAPWARE /GlobalConf1
 - XML structure1
 - Table description.....1
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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: <ul style="list-style-type: none"> Type. Path. User. Password. LocalPacketLimit. 	N/A
Type	Storage type of the .cap file.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Simple. 2—Cipher. 	

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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: <ul style="list-style-type: none">Type.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> Path. User. Password. LocalPacketLimit. 	
Type	Storage type of the .cap file.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Started. false—Stopped.
StateDetail	Detailed packet capture status.	N/A	Enumeration: <ul style="list-style-type: none"> 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

- PEX1
 - PEX/PEXPorts1
 - XML structure1
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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: <ul style="list-style-type: none"> 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	<p>IRF (distributed): chassis ID Other: slot ID MinAssociateID and MaxAssociateID specification: Please reference to Comware V7 PEX NETCONF XML API Data Reference.</p> <p>Caution: PEX will reboot when the associated ID is modified.</p>

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- PEX1
 - PEX/Capability1
 - XML structure1
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 - Columns.....1
 - PEX/PEXPorts2
 - XML structure2
 - Table description.....3
 - 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. <ul style="list-style-type: none"> 1—Offline 2—Loading 3—Online 	N/A
Interface	Physical port of a PEX port.	Data structure	Members: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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

Contents

PEX1

 PEX/PEXPorts1

PEX

PEX/PEXPorts

Message	Explanation
Operation failed. The PEX port ID is out of range.	The PEX port ID is out of range.
The PEX port doesn't exist.	The PEX port does not configuration.
Operation failed. The number of PEX port's associated physical interfaces reached the upper limit.	The number of PEX port's associated physical interfaces reached the upper limit.
The virtual chassis ID or virtual slot number is already used.	The virtual chassis ID or virtual slot number is already used.
Interface <i>Ten-GigabitEthernet1/0/7</i> has been bound to another PEX port.	The interface has been bound to another PEX port.
The type of interface <i>Ten-GigabitEthernet1/0/7</i> is not supported.	The interface type is not supported to bind to PEX port.
Interface <i>Ten-GigabitEthernet1/0/7</i> is already used exclusively by another feature and can't be bound to a PEX port.	The interface is already used exclusively by another feature and can't be bound to a PEX port.
Configuration synchronization timed out.	Configuration synchronization timed out.
Configuration synchronization failed.	Configuration synchronization failed.
Interface <i>Ten-GigabitEthernet1/0/7</i> has been bound to the PEX port.	The interface has been bound to the PEX port.
Interface <i>Ten-GigabitEthernet1/0/7</i> switching failed.	The interface binding to PEX port is failed.
Can't perform the operation when the PEX is loading.	Can't perform the operation when the PEX is loading.
The PEX port ID is already used in another MDC.	The PEX port ID is already used in another MDC.
Physical interface <i>Ten-GigabitEthernet100/0/7</i> on PEXs can't be bound to a PEX port.	The physical interface on PEXs can't be bound to a PEX port.
The virtual chassis ID or virtual slot number is not in range.	The virtual chassis ID or virtual slot number is not in range.
Interface <i>Ten-GigabitEthernet1/0/7</i> doesn't exist.	The interface does not exist.

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PFC

PFC/IfDeadLock

This table is used to recover from PFC deadlock.

XML structure

```
<PFC>
  <IfDeadLock>
    <Interface>
      <IfIndex></IfIndex>
      <Recover></Recover>
    </Interface>
  </IfDeadLock>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	IfRecover
Table type	Multi-instance table
Row name	DeadLock
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.
Recover	Recover from PFC deadlock.	N/A	This column must be empty.	N/A

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PFC

PFC/GlobalCfg

This table contains the global PFC configuration.

XML structure

```
<PFC>
  <GlobalCfg>
    <State></State>
  </GlobalCfg>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	GlobalCfg
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
State	Global PFC state.	N/A	Enumeration: <ul style="list-style-type: none">enable.(default)disable.	N/A

PFC/DeadLockIntervals

This table contains the detection interval information of the specified CoS.

XML structure

```
<PFC>
  <DeadLockIntervals>
    <DeadLockInterval>
```



```

    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Cos></Cos>
    <Interval></Interval>
  </DeadLockInterval>
</DeadLockIntervals>
</PFC>

```

Table description

Item	Description
Feature name	PFC
Table name	DeadLockIntervals
Table type	Multi-instance table
Row name	DeadLockInterval
Restrictions	None
Support for row creation and deletion	No

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 65535.	The value is 65535 when the current devie's type is centralized.
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current devie's type is centralized.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current devie's type is centralized.
Cos	Class of service	Index	Unsigned integer. Value range: 0 to 7.	N/A
Interval	Detection interval configuration	N/A	Unsigned integer. Value range: 1 to 15	N/A

PFC/DeadLockPrecisions

This table contains the timer precision configuration.

XML structure

```
<PFC>
  <DeadLockPrecisions>
    <DeadLockPrecision>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Precision></Precision>
    </DeadLockPrecision>
  </DeadLockPrecisions>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	DeadLockPrecisions
Table type	Multi-instance table
Row name	DeadLockPrecision
Restrictions	None
Support for row creation and deletion	No

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 65535.	The value is 65535 when the current device's type is centralized.
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current device's type is centralized.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current device's type is centralized.
Precision	Timer precision configuration	N/A	Enumeration: <ul style="list-style-type: none">1—High.2—Normal(default)3—Low	N/A

PFC/PortDeadLocks

This table contains the deadlock and manual recovery mode configuration.

XML structure

```
<PFC>
  <PortDeadLocks>
    <PortDeadLock>
      <IfIndex></IfIndex>
      <State></State>
      <RecoverMode></RecoverMode>
    </PortDeadLock>
  </PortDeadLocks>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	PortDeadLocks
Table type	Multi-instance table
Row name	PortDeadLock
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.
State	Enable PFC deadlock	N/A	Enumeration: <ul style="list-style-type: none">enable.disable(default)	N/A
RecoverMode	RecoverMode Configuration	N/A	Enumeration: <ul style="list-style-type: none">1—Manual.2—Auto(default)	N/A

PFC/PortPktWarningThresholds

This table contains the input and output early warning information.

XML structure

```
<PFC>
  <PortPktWarningThresholds>
    <PortPktWarningThreshold>
      <IfIndex></IfIndex>
      <Cos></Cos>
      <Inpps></Inpps>
      <Outpps></Outpps>
    </PortPktWarningThreshold>
  </PortPktWarningThresholds>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	PortPktWarningThresholds
Table type	Multi-instance table
Row name	PortPktWarningThreshold
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.
Cos	Class of service	Index	Unsigned integer. Value range: 0 to 7.	N/A
Inpps	Input early warning information	N/A	Unsigned integer. The value range is from 1 to 159783010.	N/A
Outpps	Output early warning information	N/A	Unsigned integer. The value range is from 1 to 159783010.	N/A

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Columns	4
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XML structure	4
Table description	5
Columns	5

PFC

PFC/GlobalCfg

This table contains the global PFC configuration.

XML structure

```
<PFC>
  <GlobalCfg>
    <State></State>
  </GlobalCfg>
</PFC>
```

Table description

Item	Description
Feature name	PFC
Table name	GlobalCfg
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Global PFC state.	N/A	Enumeration: <ul style="list-style-type: none">enable.disable.	N/A

PFC/DeadLockIntervals

This table contains the detection interval information of the specified CoS.

XML structure

```
<PFC>
  <DeadLockIntervals>
    <DeadLockInterval>
      <Chassis></Chassis>
      <Slot></Slot>
    </DeadLockInterval>
  </DeadLockIntervals>
</PFC>
```



```

    <CPUID></CPUID>
    <Cos></Cos>
    <Interval></Interval>
  </DeadLockInterval>
</DeadLockIntervals>
</PFC>

```

Table description

Item	Description
Feature name	PFC
Table name	DeadLockIntervals
Table type	Multi-instance table
Row name	DeadLockInterval
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 65535.	The value is 65535 when the current devie's type is centralized.
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current devie's type is centralized.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current devie's type is centralized.
Cos	Class of service	Index	Unsigned integer. Value range: 0 to 7.	N/A
Interval	Detection interval configuration	N/A	Unsigned integer. Value range: 1 to 15	N/A

PFC/DeadLockPrecisions

This table contains the timer precision configuration.

XML structure

```

<PFC>
  <DeadLockPrecisions>
    <DeadLockPrecision>

```



```

    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Precision></Precision>
  </DeadLockPrecision>
</DeadLockPrecisions>
</PFC>

```

Table description

Item	Description
Feature name	PFC
Table name	DeadLockPrecisions
Table type	Multi-instance table
Row name	DeadLockPrecision
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 65535.	The value is 65535 when the current devie's type is centralized.
Slot	Slot ID of the device node.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current devie's type is centralized.
CPUID	CPU ID.	Index	Unsigned integer. Value range: 0 to 65535.	The value is 65535 when the current devie's type is centralized.
Precision	Timer precision configuration	N/A	Enumeration: <ul style="list-style-type: none"> 1—High. 2—Normal 3—Low 	N/A

PFC/PortDeadLocks

This table contains setting deadlock enable and recover-mode manual.

XML structure

```

<PFC>
  <PortDeadLocks>
    <PortDeadLock>

```



```

    <IfIndex></IfIndex>
    <State></State>
    <RecoverMode></RecoverMode>
  </PortDeadLock>
</PortDeadLocks>
</PFC>

```

Table description

Item	Description
Feature name	PFC
Table name	PortDeadLocks
Table type	Multi-instance table
Row name	PortDeadLock
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.
State	Enable PFC deadlock function.	N/A	Enumeration: <ul style="list-style-type: none"> enable. disable 	N/A
RecoverMode	RecoverMode configuration	N/A	Enumeration: <ul style="list-style-type: none"> 1—Manual. 2—Auto 	N/A

PFC/PortPktWarningThresholds

This table contains the input and output early warning information.

XML structure

```

<PFC>
  <PortPktWarningThresholds>
    <PortPktWarningThreshold>
      <IfIndex></IfIndex>
    
```



```

    <Cos></Cos>
    <Inpps></Inpps>
    <Outpps></Outpps>
  </PortPktWarningThreshold>
</PortPktWarningThresholds>
</PFC>

```

Table description

Item	Description
Feature name	PFC
Table name	PortPktWarningThresholds
Table type	Multi-instance table
Row name	PortPktWarningThreshold
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.
Cos	Class of service	Index	Unsigned integer. Value range: 0 to 7.	N/A
Inpps	Input early warning infomaition.	N/A	Unsigned integer. The value range is from 1 to 159783010.	N/A
Outpps	Output early warning infomaition.	N/A	Unsigned integer. The value range is from 1 to 159783010.	N/A

Contents

- PIM 1
 - PIM/Instances 1
 - XML structure 1
 - Table description 1
 - Columns 1
 - PIM/Interfaces 2
 - 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> • 1—PIM-SM. • 2—PIM-DM. 	N/A

Contents

PIM	1
PIM/Instances	1
XML structure	1
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Columns	1
PIM/Interfaces	2
XML structure	2
Table description	2
Columns	2
PIM/Ipv4Nbrs	2
XML structure	2
Table description	3
Columns	3

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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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.

Contents

- PIM1
 - PIM/Instances1
 - PIM/Interfaces1
 - PIM/Ipv4Nbrs1

PIM

PIM/Instances

Message	Explanation
PIM is not configured.	During executing set operation, PIM is not configured.
PIM is not ready.	During executing set operation, PIM is not complete startup.
PIM is not enabled.	During executing set operation, resource is not enough, that result in failing to create PIM view.

PIM/Interfaces

Message	Explanation
PIM is not configured.	During executing set operation, PIM is not configured.
PIM is not ready.	During executing set operation, PIM is not complete startup.
PIM-DM and PIM-SM can't coexist in the same VRF.	During executing replace or merge operation for mode of this interface, PIM_SM or PIM_DM mode is already configured. Before setting new mode, deleting or removing previous mode is required.
PIM is not enabled on this interface.	Resource is not enough, that result in failing to enable PIM on this interface.

PIM/Ipv4Nbrs

Message	Explanation
PIM is not configured.	During executing set operation, PIM is not configured.
PIM is not ready.	During executing set operation, PIM is not complete startup.

Contents

- Ping1
 - Ping/IPv4Ping.....1
 - XML structure1
 - Responded XML structure.....1
 - Table description.....1
 - Columns2
 - Responded columns2

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: <ul style="list-style-type: none"> 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.

Contents

Ping 1

 Ping/IPv4Ping 1

Ping

Ping/IPv4Ping

Message	Explanation
Unknown host. 未知主机。	The specified host must exist.
The VPN instance doesn't exist. VPN不存在。	The specified VPN instance name must exist.

Contents

- Ping6.....1
 - Ping6/IPv6Ping.....1
 - XML structure.....1
 - Responded XML structure.....1
 - Table description.....1
 - Columns.....2
 - Responded columns2

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: <ul style="list-style-type: none"> 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.

Contents

Ping6 1

 Ping6/IPv6Ping 1

Ping6

Ping6/IPv6Ping

Message	Explanation
Unknown host. 未知主机。	The specified host must exist.
The VPN instance doesn't exist. VPN不存在。	The specified VPN instance name must exist.

Contents

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PKEY/ExportPublicKeys	1
XML structure	1
Table description	1
Columns	1
PKEY/ImportPeerKeys	2
XML structure	2
Table description	2
Columns	3
PKEY/CreateLocalKeys	3
XML structure	3
Table description	3
Columns	4
PKEY/DestroyLocalKeys	4
XML structure	4
Table description	4
Columns	5

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: <ul style="list-style-type: none"> • "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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • "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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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

- PKEY1
 - PKEY/PeerKeys1
 - XML structure.....1
 - Table description.....1
 - Columns.....1

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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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>
  <DefaultLocalKeys>
    <Key>
      <AlgID></AlgID>
      <Usage></Usage>
      <Length></Length>
      <CreatedTime></CreatedTime>
      <Value></Value>
    </Key>
  </DefaultLocalKeys>
</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.
Usage	Key Usage	Index	Enumeration:	ServerKey is only

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 1—HostKey. 2—ServerKey 	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: <ul style="list-style-type: none"> 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: <code>" ~ * " \ , ' . " < " > "" "" "" "" "" / "</code>
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: <ul style="list-style-type: none"> 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.	<ul style="list-style-type: none"> 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: <code>" ~ * ' " \ , ; . : < > " " " " " / " "</code>
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: <ul style="list-style-type: none"> 1—DER 2—PKCS#12 3—PEM 	N/A
IsWithCerts Chain	If exported certificate contains CA certificate chain	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No. Default value is false	N/A
IsWithKey	If exported certificate contains private key	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No. Default 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">1—CA2—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: ~, *, ", \, , ', ., <, >, /, .
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. 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: <ul style="list-style-type: none"> true—Enable. false—Disable. Default value is false.	N/A
Usage	Certificate usage for requesting certificate	Data structure	Members include: <ul style="list-style-type: none"> IKE SSLServer SSLClient. 	Can include one or more certificate usage at the same time.
IKE	Use certificate as the IKE	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
SSLServer	Use certificate as the SSL server certificates	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
SSLClient	Use certificate as the SSL client certificates	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—alt-subject-name 2—issuer-name 3—subject-name 	N/A
Item	The item in the object	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: ~ " ' & " \ , " . ; : " " < " " > _ " / .
CALentifier	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: <ul style="list-style-type: none"> true—Enable. false—Disable. Default value is false.	N/A
Usage	Certificate usage for requesting certificate	Data structure	Members include: <ul style="list-style-type: none"> IKE SSLServer SSLClient. 	Can include one or more certificate usage at the same time.
IKE	Use certificate as the IKE	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
SSLServer	Use certificate as the SSL server certificates	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	N/A
SSLClient	Use certificate as the SSL client certificates	N/A	Boolean: <ul style="list-style-type: none"> 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


```

<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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> true—Yes. false—No. 	Error information
IsKeyPairExisted	If the key pair is existed	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Yes. false—No. 	Error information
NeedReplaceCACert	If the CA certificate needs to be replaced	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No. 	Confirm information
NeedReplaceLocalCert	If the local certificate needs to be replaced	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No. 	Confirm information
NeedReplaceKeyPair	If the key pair needs to be replaced	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
    </Cert>
  </DomainPeerCerts>
</PKI>

```



```
<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: ~ " * ' \ " , . : ; < > , " / .
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 certificate	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: <ul style="list-style-type: none">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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Columns.....	6

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. <ul style="list-style-type: none">1 – disabled (default).2 – priority.	<p>The PSE policy only applies to the situation that when a new board (PSE) is inserted, and the power is overload.</p> <p>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.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
PDPolicyMode	Mode of PD power policy	N/A	Enumeration. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 1 – critical. 2 – high. 3 – low (default). 	N/A
Legacy	The legacy mode status(for nonstandard PD detection)	N/A	Enumeration. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false 	N/A
Pairs	The power pairs in use.	N/A	Enumeration. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 1 – critical. 2 – high. 3 – low (default). 	N/A
Pairs	The power pairs in use.	N/A	Enumeration. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">truefalse	N/A
PSEPolicy	Whether the system supports PSE power policy configuration	N/A	Boolean: <ul style="list-style-type: none">truefalse	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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 1 – critical. 2 – high. 3 – low. 	N/A
Legacy	The legacy mode status(for nonstandard PD detection)	N/A	Enumeration. <ul style="list-style-type: none"> 0 – enabled. 1 – disabled. 	N/A
MaxPowerDefa ult	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. <ul style="list-style-type: none"> 1 – true. 2 – false. 	N/A
PairsControllability	The capability of controlling the power pairs functionality to switch pins for sourcing power	N/A	Enumeration. <ul style="list-style-type: none"> 1 – true. 2 – false. 	N/A
Pairs	The power pairs in use.	N/A	Enumeration. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 1 – critical. 2 – high. 3 – low. 	N/A
Pairs	The power pairs in use.	N/A	Enumeration. <ul style="list-style-type: none"> 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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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: <ul style="list-style-type: none">true—Enabled.false—Disabled(default).
MACMove	Allows 802.1X or MAC authenticated users to move between ports on a device	N/A	Boolean: <ul style="list-style-type: none">true—Enabled.false—Disabled(default).
AuthorStrict	Allows 802.1X or MAC authenticated users who failed authorization to be online or not	N/A	<ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled(default). 	N/A
ProtectionMode	Protection action when an intrusion is detected	N/A	Enumeration: <ul style="list-style-type: none"> 1—noaction (default). 2—blockusermac. 3—shutdownport. 4—shutdownportforatime. 	N/A
SecMACAgeMode	Secure MAC aging mode	N/A	Enumeration: <ul style="list-style-type: none"> 0—Timeout (default). 1—Inactivity. 	N/A
SecMACSticky	Saves secure MACs on the interface or not	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">true—Enabled.false—Disabled.
MACMove	Allows 802.1X or MAC authenticated users to move between ports on a device	N/A	Boolean: <ul style="list-style-type: none">true—Enabled.false—Disabled.
AuthorStrict	Allows 802.1X or MAC authenticated users who failed authorization to be online or not	N/A	Boolean: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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-without. 	N/A
AuthorIgnore	Ignores authorization information from the server for users logging on from the interface	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
ProtectionMode	Protection action when an intrusion is detected	N/A	Enumeration: <ul style="list-style-type: none"> 1—noaction. 2—blockusermac. 3—shutdownport. 4—shutdownportforatime. 	N/A
SecMACAgeMode	Secure MAC aging mode	N/A	Enumeration: <ul style="list-style-type: none"> 0—Timeout. 1—Inactivity. 	N/A
SecMACSticky	Saves secure MACs on the interface or not	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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

Contents

Portsec1

 Portsec/Init1

Portsec

Portsec/Init

Message	Explanation
Can't set the security mode to autoLearn before you set the maximum number of users. 不能设置端口安全为自动学习模式，因为最大MAC地址数没有设置。	Can't set the security mode to autoLearn before you set the maximum number of users. 不能设置端口安全为自动学习模式，因为最大MAC地址数没有设置。
Can't enable port security when 802.1X is already enabled. 使能端口安全失败，因为已经使能802.1X。	Can't enable port security when 802.1X is already enabled. 使能端口安全失败，因为已经使能802.1X。
Can't enable port security when MAC authentication is already enabled. 使能端口安全失败，因为已经使能MAC地址认证。	Can't enable port security when MAC authentication is already enabled. 使能端口安全失败，因为已经使能MAC地址认证。
Can't change the port security mode. Please change the mode to noRestriction first. 不能更改端口安全模式。请首先更改为noRestriction模式。	Can't change the port security mode. Please change the mode to noRestriction first. 不能更改端口安全模式。请首先更改为noRestriction模式。
The number can't be less than the current number of secure MAC addresses. 配置的最大MAC地址数不能小于当前MAC地址数。	The number can't be less than the current number of secure MAC addresses. 配置的最大MAC地址数不能小于当前MAC地址数。
The maximum number of secure MAC addresses is not configurable in autoLearn mode. 在autoLearn模式下不能配置最大MAC地址数。	The maximum number of secure MAC addresses is not configurable in autoLearn mode. 在autoLearn模式下不能配置最大MAC地址数。
Can't configure port security mode on an 802.1X-enabled port. 不能配置端口安全模式，因为已经使能端口的802.1X功能。	Can't configure port security mode on an 802.1X-enabled port. 不能配置端口安全模式，因为已经使能端口的802.1X功能。
Can't configure port security mode on the port when 802.1X access control is not MAC based. 不能配置端口安全模式，因为802.1X端口接入方式不是基于MAC认证。	Can't configure port security mode on the port when 802.1X access control is not MAC based. 不能配置端口安全模式，因为802.1X端口接入方式不是基于MAC认证。
Can't configure port security mode on the port when 802.1X port authorization state is not auto. 不能配置端口安全模式，因为802.1X端口授权状态不是自动识别。	Can't configure port security mode on the port when 802.1X port authorization state is not auto. 不能配置端口安全模式，因为802.1X端口授权状态不是自动识别。
Can't configure port security mode on a MAC authentication-enabled port. 不能配置端口安全模式，因为已经使能端口的MAC地址认证功能。	Can't configure port security mode on a MAC authentication-enabled port. 不能配置端口安全模式，因为已经使能端口的MAC地址认证功能。
Can't enable port security on a link aggregation member port. 不能使能端口安全，因为这是一个聚合成员接口。	Can't enable port security on a link aggregation member port. 不能使能端口安全，因为这是一个聚合成员接口。
Can't add secure MAC addresses when port	Can't add secure MAC addresses when port security is disabled.

security is disabled. 不能添加安全MAC地址，因为端口安全没有使能。	不能添加安全MAC地址，因为端口安全没有使能。
Can't add secure MAC addresses on the port when the port security mode is not autoLearn. 不能添加安全MAC地址，因为该接口上的端口不是autoLearn模式。	Can't add secure MAC addresses on the port when the port security mode is not autoLearn. 不能添加安全MAC地址，因为该接口上的端口不是autoLearn模式。
Can't add secure MAC addresses when the maximum number of secure MAC addresses on the port is already reached. 不能添加安全MAC地址，因为接口上的安全MAC地址数已经达到了最大值。	Can't add secure MAC addresses when the maximum number of secure MAC addresses on the port is already reached. 不能添加安全MAC地址，因为接口上的安全MAC地址数已经达到了最大值。
Invalid MAC address. 无效的MAC地址。	Invalid MAC address. 无效的MAC地址。
The MAC address already exists on another interface. MAC地址已经在其他接口上存在。	The MAC address already exists on another interface. MAC地址已经在其他接口上存在。
Sticky can not be modified. Sticky属性不能被修改。	Sticky can not be modified. Sticky属性不能被修改。
Can't add sticky MAC addresses when dynamic secure MAC is enabled. 在动态模式下不能添加静态MAC地址。	Can't add sticky MAC addresses when dynamic secure MAC is enabled. 在动态模式下不能添加静态MAC地址。
No security MAC address matches the specified condition. 安全MAC地址和指定的环境不匹配。	No security MAC address matches the specified condition. 安全MAC地址和指定的环境不匹配。
Please create the VLAN first. 请首先创建相应的VLAN。	Please create the VLAN first. 请首先创建相应的VLAN。
The port is not assigned to the VLAN, or the VLAN is not permitted on the port. 该接口没有绑定VLAN，或者VLAN不允许该接口。	The port is not assigned to the VLAN, or the VLAN is not permitted on the port. 该接口没有绑定VLAN，或者VLAN不允许该接口。
The OUI value already exists. OUI值已经存在。	The OUI value already exists. OUI值已经存在。
The OUI index already exists. OUI索引已经存在。	The OUI index already exists. OUI索引已经存在。
OUI value must be specified. 没有指定OUI值。	OUI value must be specified. 没有指定OUI值。
Can't enable port security when EAD assistant is already enabled. 使能端口安全失败，因为已经使能EAD快速部署。	Can't enable port security when EAD assistant is already enabled. 使能端口安全失败，因为已经使能EAD快速部署。
Port security, MAC authentication, and 802.1X authentication are not supported on Layer 2 aggregate interfaces. 端口安全，MAC地址认证和802.1X认证不支持在二层以太网聚合接口上配置。	Port security, MAC authentication, and 802.1X authentication are not supported on Layer 2 aggregate interfaces. 端口安全，MAC地址认证和802.1X认证不支持在二层以太网聚合接口上配置。
The NTK feature can't be configured on aggregate interfaces. 聚合接口不能配置NTK特性。	The NTK feature can't be configured on aggregate interfaces. 聚合接口不能配置NTK特性。

The free VLAN feature is not supported on the port.

该接口不支持配置FreeVlan

The free VLAN feature is not supported on the port.

该接口不支持配置FreeVlan

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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: <ul style="list-style-type: none">false—OFF.true—ON.	N/A

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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: <ul style="list-style-type: none"> 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

			Members include:	
Detect	Web server detection	Data structure	<ul style="list-style-type: none"> Interval Retry Action 	The Action must be included.
Interval	Detection interval	N/A	Non-negative integer. Value range: 10 to 1200 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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	Not support modify
Support for row creation and deletion	Yes

Columns

Column name	Description	Column type	Data type restrictions and	Remarks
RuleID	Portal-free rule number	Index	Non-negative integer.	N/A

IsAllotID	Whether ID is allocated automatically		Boolean:	
			<ul style="list-style-type: none"> • true—Yes • false—No 	N/A
Description	Description for the portal free rule		String,	
			<ul style="list-style-type: none"> • Length: 1 to 255 characters. 	N/A
			Members include:	
Layer3	N/A	Data structure	<ul style="list-style-type: none"> • 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:	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.
			<ul style="list-style-type: none"> • 6—TCP • 17—UDP 	
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
DstIPAddr	Destination IP address	N/A	IPv4: String, dotted decimal notation. IPv6: Hexadecimal	IPv4 address example: 1.0.0.1 IPv6 address

			string, colon-separated.	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 DstPAddr is IPv6 address type, the value range is 0 to 128.
DstProtocolType	Destination protocol type	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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
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: <ul style="list-style-type: none">UserprofileAcl	N/A
Userprofile	Whether strict check is enabled for the authorized user profile	N/A	Boolean: <ul style="list-style-type: none">true—Yesfalse—No	N/A

Acl	Whether strict check is enabled for authorized ACL	N/A	Boolean: <ul style="list-style-type: none"> 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>
      <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: <ul style="list-style-type: none"> 0—Direct 1—Layer3 2—Redhcp Members include:	N/A
WebServer	N/A	Data structure	<ul style="list-style-type: none"> WebServerName EscapeEnable String, case-sensitive.	Both members must be included at the same time.
WebServerName	Name of the IPv4 portal Web server	N/A	Length: 1 to 32 characters.	N/A
EscapeEnable	Whether the fail-permit feature is enabled for the IPv4 portal Web server	N/A	Boolean: <ul style="list-style-type: none"> 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. Members include:	N/A
UserDetect	N/A	Data structure	<ul style="list-style-type: none"> • UserDetectType • UserDetectIdleTime • UserDetectInterval • UserDetectRetry Enumeration:	UserDetectType must be set, and other columns use default settings if not set.
UserDetectType	IPv4 user detection type	N/A	<ul style="list-style-type: none"> • 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
TempPass	TempPass feature that temporarily permits Internet access	Data structure	Members include: <ul style="list-style-type: none"> • TempPassEnable • TempPassPeriod Enumeration:	TempPassEnable must be included, and TempPassPeriod uses the default if not set.
TempPassEnable	TempPass status	N/A	<ul style="list-style-type: none"> • 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>
      <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: <ul style="list-style-type: none"> 0.Direct 1.Layer3 	N/A
WebServer	N/A	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	N/A	Data structure	Members include: <ul style="list-style-type: none"> UserDetectType UserDetectIdleTim 	UserDetectType must be set, other columns use default

			e	settings if not set.
			<ul style="list-style-type: none"> UserDetectInterval UserDetectRetry Enumeration:	
UserDetectType	IPv6 user detection type	N/A	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> TempPassEnable TempPassPeriod 	TempPassEnable must be included, and TempPassPeriod uses the default if not set.
TempPassEnable	TempPass status	N/A	Enumeration: <ul style="list-style-type: none"> 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>
<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

			Enumeration:	
Method	IPv4 portal authentication method	N/A	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> 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	N/A	Unsigned integer. Value range: 1 to 10. Default: 3.	N/A

	attempts			
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: <ul style="list-style-type: none"> TempPassEnable TempPassPeriod 	TempPassEnable must be included and TempPassPeriod uses the default if not set.
TempPassEnable	TempPass status	N/A	Enumeration: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> 0—Direct 1—Layer3 	N/A
WebServer	N/A	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	N/A	IPv6: Hexadecimal string, colon-separated.	N/A

	IPv6 user authentication				
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 Enumeration:	UserDetectType must be included, and other columns are specified as default if not set.
UserDetectType	IPv6 user detection type	N/A		<ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> TempPassEnable TempPassPeriod 	TempPassEnable must be included and TempPassPeriod uses the default if not set.
TempPassEnable	TempPass status	N/A		Enumeration: <ul style="list-style-type: none"> 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>
    </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. Members include:	N/A
IPv4WebRedirect	N/A	Data structure	<ul style="list-style-type: none"> 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 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:	N/A

			<ul style="list-style-type: none"> IPv6WebRedirectUrl IPv6WebRedirectIntervalVal 	
IPv6WebRedirectUrl	Redirect URL for IPv6 users	N/A	String, case-sensitive. Length: 1 to 256 characters.	N/A
IPv6WebRedirectIntervalVal	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
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
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: <ul style="list-style-type: none"> true—Yes false—No 	N/A
NasPortIdFormat	Format of the NAS-Port-ID attribute	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">0—HTTP1—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 (_).
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: <ul style="list-style-type: none">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.
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: <ul style="list-style-type: none">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.
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: <ul style="list-style-type: none">• 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.
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
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: <ul style="list-style-type: none"> 0—QQ. 1—Mail. String.	N/A
AuthUrl	Authentication URL	N/A	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: <ul style="list-style-type: none"> • 1—POP3. • 2—IMAP. • 3—POP3 and IMAP. 	This column takes effect only when the Type field is specified as 1.
MailDomain	Mail domain	Data structure	Members include: <ul style="list-style-type: none"> • 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>
    </MacTriggerServer>
  </MacTriggerServers>
</Portal>

```



```

    <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	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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true—Yes • false—No 	N/A

Portal/ForbiddenRule

This table contains information about portal-forbidden rules.

XML structure

```
<Portal>
  <ForbiddenRules>
    <ForbiddenRule>
      <RuleID></RuleID>
      <SrcIPAddr></SrcIPAddr>
      <SrcIPAddrLen></SrcIPAddrLen>
      <SrcProtocolType></SrcProtocolType>
      <SrcPortStart></SrcPortStart>
      <SrcPortEnd></SrcPortEnd>
      <DstIPAddr></DstIPAddr>
      <DstIPAddrLen></DstIPAddrLen>
      <DstProtocolType></DstProtocolType>
      <DstPortStart></DstPortStart>
      <DstPortEnd></DstPortEnd>
      <DstHostName></DstHostName>
      <SrcSsidName></SrcSsidName>
    </ForbiddenRule>
  </ForbiddenRules>
</Portal>
```

Table description

Item	Description
Feature name	Portal
Table name	ForbiddenRules
Table type	Multi-instance table
Row name	ForbiddenRule
Restrictions	Not support modify
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Portal-forbidden rule number	Index	Non-negative integer.	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: <ul style="list-style-type: none">0 to 32 for a source IPv4	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			address. <ul style="list-style-type: none"> 0 to 128 for a source IPv6 address. 	
SrcProtocolType	Source protocol type	N/A	Enumeration: <ul style="list-style-type: none"> 6—TCP. 17—UDP. 	When SrcProtocolType is configured, SrcPortStart and SrcPortEnd must be configured and use the same protocol type.
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
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: <ul style="list-style-type: none"> 0 to 32 for a destination IPv4 address. 0 to 128 for a destination IPv6 address. 	N/A
DstProtocolType	Destination protocol type	N/A	Enumeration: <ul style="list-style-type: none"> 6—TCP. 17—UDP. 	When DstProtocolType is configured, DstPortStart and DstPortEnd must be configured and use the same protocol type.
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
DstHostName	Destination hostname	N/A	String. Length: 1 to 253 characters.	N/A
SrcSsidName	Source SSID name	N/A	String. Length: 1 to 32 characters.	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
IPAddressInfo	Portal server	Data	Members include:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	address	structure	<ul style="list-style-type: none"> IPAddress VRF 	
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
Status	Status of the portal server	N/A	Enumeration: <ul style="list-style-type: none"> 0—Up 1—Down 	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>

```



```
</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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—default 1—enable 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—optimize enable 5—ios enable 6—android enable 	
IPv4Status	Status of the IPv4 portal Web server	N/A	Enumeration: <ul style="list-style-type: none"> 0—Up 1—Down 	N/A
IPv6Status	Status of the IPv6 portal Web server	N/A	Enumeration: <ul style="list-style-type: none"> 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
ParamName	Parameter name	Index	String, case-sensitive. Length: 1 to 32 characters.	This column assigns a specific SSID to the designated page file.
ParamType	Parameter type	N/A	Enumeration: <ul style="list-style-type: none"> 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	Not support modify

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 6—TCP 17—UDP 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <AuthorisationCheck>
        <Userprofile></Userprofile>
        <Acl></Acl>
      </AuthorisationCheck>
      <VsrpInStance></VsrpInStance>
      <VsrpStatus></VsrpStatus>
    </Interface>
  </Interfaces>
</Portal>
```

Table description

Item	Description
Table description	Portal interface information table
Table type	Multi-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: <ul style="list-style-type: none">UserprofileAcl	N/A
Userprofile	Whether strict check is enabled for the authorized user profile	N/A	Boolean: <ul style="list-style-type: none">true—Yesfalse—No	N/A
Acl	Whether strict check is enabled for the authorized ACL	N/A	Boolean: <ul style="list-style-type: none">true—Yesfalse—No	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
VsrpInStance	VSRP instance name	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
VsrpStatus	VSRP status	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Direct 1—Layer3 2—Redhcp 	N/A
WebServer	WebServer	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	N/A	String, case-sensitive. Length: 1 to 32 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	fail-permit feature enabled			
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: <ul style="list-style-type: none"> UserDetectType UserDetectIdleTime UserDetectInterval UserDetectRetry 	N/A
UserDetectType	IPv4 user detection type	N/A	Enumeration: <ul style="list-style-type: none"> 0—ARP 2—ICMP 	N/A
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: <ul style="list-style-type: none"> TempPassEnable TempPassPeriod 	N/A
TempPassEnable	TempPass status	N/A	Enumeration: <ul style="list-style-type: none"> 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>
      <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: <ul style="list-style-type: none"> 0—Direct 1—Layer3 	N/A
WebServer	WebServer	Data structure	Members include: <ul style="list-style-type: none"> WebServerName EscapeEnable 	N/A
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> UserDetectType UserDetectIdleTime UserDetectInterval UserDetectRetry 	N/A
UserDetectType	IPv6 user detection type	N/A	Enumeration: <ul style="list-style-type: none"> 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	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: <ul style="list-style-type: none"> TempPassEnable TempPassPeriod 	N/A
TempPassEnable	TempPass status	N/A	Enumeration: <ul style="list-style-type: none"> 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>

```

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: <ul style="list-style-type: none"> 0—Direct 1—Layer3 2—Redhcp 	N/A
WebServer	N/A	Data structure	Members include: <ul style="list-style-type: none"> WebServerName EscapeEnable 	N/A
WebServerName	IPv4 portal Web server	N/A	String, case-sensitive. Length: 1 to 32	N/A

Column name	Column description name	Column type	Data type and restrictions characters.	Remarks
EscapeEnable	Enable the fail-permit feature for the IPv4 portal Web server	N/A	Boolean: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> UserDetectType UserDetectIdleTime UserDetectInterval UserDetectRetry 	N/A
UserDetectType	IPv4 user detection type	N/A	Enumeration: <ul style="list-style-type: none"> 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	Data structure	Members include: <ul style="list-style-type: none"> TempPassEnable TempPassPeriod 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	access			
TempPassEnable	TempPass status	N/A	Enumeration: <ul style="list-style-type: none"> 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
Method	IPv6 portal authentication method	N/A	Enumeration: <ul style="list-style-type: none">0—Direct1—Layer3	N/A
WebServer	N/A	Data structure	Members include: <ul style="list-style-type: none">WebServerNameEscapeEnable	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: <ul style="list-style-type: none">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:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> UserDetectType UserDetectIdleTime UserDetectInterval UserDetectRetry 	
UserDetectType	IPv6 user detection type	N/A	Enumeration: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> TempPassEnable TempPassPeriod 	N/A
TempPassEnable	TempPass status	N/A	Enumeration: <ul style="list-style-type: none"> 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>
    </WebRedirect>
  </WebRedirects>
</Portal>

```



```

<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
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	N/A	Non-negative integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	IPv6 users		Value range: 60 to 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	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	N/A	Non-negative integer. Value range: 1 to 32.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4 users				
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

Column name	Column description	Column type	Data type and restrictions	Remarks
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	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: <ul style="list-style-type: none">true—Yesfalse—No	N/A
NasPortIdFormat	Format of the NAS-Port-ID attribute	N/A	Enumeration: <ul style="list-style-type: none">1—Format12—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
ClientGatewayIndex	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>
    </OnlineUser>
  </OnlineUsers>
</Portal>

```



```

    <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
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	Data	Members include:	N/A

Column name	Column description for the user.	Column type structure	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> SendPktNum SendByteNum RecvPktNum RecvByteNum 	
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: <ul style="list-style-type: none"> 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
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	N/A	Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	challenge acknowledgm ent packets			
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 acknowledgm ent packet the device sent to the portal server	N/A		N/A
AckAuthTotal	Total number of authentication acknowledgm ent packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckAuthDrop	Number of dropped authentication acknowledgm ent packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AckAuthError	Number of erroneous authentication acknowledgm ent 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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
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	N/A	Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	of forced logout notification packets			
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
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

Column name	Column description	Column type	Data type and restrictions	Remarks
NtfUserDiscoveryTotal	Total number of user discovery notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfUserDiscoveryDrop	Number of dropped user discovery notification packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
NtfUserDiscoveryError	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
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	N/A	Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	notification packets			
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
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	N/A		N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	device			
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
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

Column name	Column description	Column type	Data type and restrictions	Remarks
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
AffNtfUserNotifyTotal	Total number of NTF_USER_NOTIFY acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AffNtfUserNotifyDrop	Number of dropped NTF_USER_NOTIFY acknowledgment packets	N/A	Value range: 0 to $2^{64}-1$.	N/A
AffNtfUserNotifyError	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: <ul style="list-style-type: none"> 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
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

Column name	Column description	Column type	Data type and restrictions	Remarks
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
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	N/A	Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	request packets			
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
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

Column name	Column description	Column type	Data type and restrictions	Remarks
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
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	N/A		N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	acknowledgment packet from the portal server			
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
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	N/A	Value range: 0 to $2^{64}-1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	query acknowledgment packets			
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
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

Column name	Column description	Column type	Data type and restrictions	Remarks
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>
      <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: <ul style="list-style-type: none"> 1–Permit 2–Redirect 3–Deny 	N/A
Status	Status of the rule	N/A	Enumeration: <ul style="list-style-type: none"> 1–Active 2–Deactive 3–N/A 	N/A
Protocol	Transport layer protocol number in the rule	N/A	Enumeration: <ul style="list-style-type: none"> 1–TCP 2–UDP 3–Any 	N/A
SrcIPv4	Source IPv4 address information	Data structure	Members include: <ul style="list-style-type: none"> SrcIPv4Addr SrcIPv4AddrMask 	N/A
SrcIPv4Addr	Source IPv4 address	N/A	IPv4: String, dotted decimal notation.	N/A
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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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>
      <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: <ul style="list-style-type: none"> 1—Permit 2—Redirect 3—Deny 	N/A
Status	Status of the rule	N/A	Enumeration: <ul style="list-style-type: none"> 1—Active 2—Deactive 3—N/A 	N/A
Protocol	Transport layer protocol number in the rule	N/A	Enumeration: <ul style="list-style-type: none"> 1—TCP 2—UDP 3—Any 	N/A
SrcIPv6	Source IPv6 address information	Data structure	Members include: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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>
      <L2IfIndex></L2IfIndex>
      <Vlan></Vlan>
      <MacAddr ></MacAddr>
      <AuthorationInfo>
        <AclNumber></AclNumber>
        <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: <ul style="list-style-type: none"> 1—Permit 	N/A
Status	Status of the rule	N/A	Enumeration: <ul style="list-style-type: none"> 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
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
AclNumber	Authorized ACL number	N/A	Non-negative integer.	AclNumber
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: <ul style="list-style-type: none">0—HTTP1—HTTPS	N/A
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: <ul style="list-style-type: none">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.
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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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>
    </ExtendAuthServer>
  </ExtendAuthServers>
</Portal>

```



```

    <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: <ul style="list-style-type: none"> 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.
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	N/A	Enumeration: <ul style="list-style-type: none"> 1—POP3. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	protocol type		<ul style="list-style-type: none"> 2—IMAP. 3—POP3 and IMAP. 	
MailDomain	Maildomain	Data structure	Members include: <ul style="list-style-type: none"> 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
Table type	Multi-instance table
Row name	HistryOnlineUserNum
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Time interval	Index	Enumeration: <ul style="list-style-type: none"> 0—Hour 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 1-Day 	
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>
    </MacTriggerServer>
  </MacTriggerSevers>
</Portal>
```



```

<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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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.
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	N/A	Unsigned integer. Value range:1~2160	N/A

Column name	Column description entry	Column type	Data type and restrictions	Remarks
CloudBindingEnable	Enable portal MAC-Trigger cloud binding	N/A	Boolean: • true—Yes false—No	N/A

Portal/ForbiddenRule

This table contains information about portal-forbidden rules.

XML structure

```

<Portal>
  <ForbiddenRules>
    <ForbiddenRule>
      <RuleID></RuleID>
      <SrcIPAddr></SrcIPAddr>
      <SrcIPAddrLen></SrcIPAddrLen>
      <SrcProtocolType></SrcProtocolType>
      <SrcPortStart></SrcPortStart>
      <SrcPortEnd></SrcPortEnd>
      <DstIPAddr></DstIPAddr>
      <DstIPAddrLen></DstIPAddrLen>
      <DstProtocolType></DstProtocolType>
      <DstPortStart></DstPortStart>
      <DstPortEnd></DstPortEnd>
      <DstHostName></DstHostName>
      <SrcSsidName></SrcSsidName>
    </ForbiddenRule>
  </ForbiddenRules>
</Portal>

```

Table description

Item	Description
Feature name	Portal
Table name	ForbiddenRules
Table type	Multi-instance table
Row name	ForbiddenRule
Restrictions	Not support modify

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleID	Portal-forbidden rule number	Index	Non-negative integer.	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: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> 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
DstHostName	destination hostname	N/A	String. Lenth: 1 to 253 characters.	N/A
SrcSsidName	Source SSID name	N/A	String. Lenth: 1 to 32 characters	N/A

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Portal

Portal/PortalServers

Message	Explanation
Portal detection configuration is not complete.	Portal detection configuration is not complete.
Another portal authentication server is using the IP address.	Another portal authentication server is using the IP address.
IP address configuration is not complete.	IP address configuration is not complete.
Invalid shared key.	Invalid shared key.
Another portal authentication server is using the IP address.	Another portal authentication server is using the IP address.
Invalid IP address.	Invalid IP address.
Failed to configure the trap action because this action is not supported.	Failed to configure the trap action because this action is not supported.

Portal/FreeRule

Message	Explanation
A portal-free rule with the same filtering criteria already exists.	A portal-free rule with the same filtering criteria already exists.
The portal free-rule already exists.	The portal free-rule already exists.
The source port number and destination port number must belong to the same transport layer protocol.	The source port number and destination port number must belong to the same transport layer protocol.
The source IP address and destination IP address of a portal-free rule must be the same IP version.	The source IP address and destination IP address of a portal-free rule must be the same IP version.
A portal-free rule can't contain both Layer 3 and Layer 2 parameters.	A portal-free rule can't contain both Layer 3 and Layer 2 parameters.
The portal-free rule can't be empty.	The portal-free rule can't be empty.
Invalid MAC address.	Invalid MAC address.
Invalid IP address.	Invalid IP address.

Portal/IPv4Interfaces

Message	Explanation
Invalid BAS-IP.	Invalid BAS-IP.
Failed to change method of the interface, because it is enabled with portal.	Failed to change method of the interface, because it is enabled with portal.
Portal detection configuration is not complete.	Portal detection configuration is not complete.

Portal Web server configuration is not complete.	Portal Web server configuration is not complete.
--------------------------------------------------	--------------------------------------------------

Portal/IPv6Interfaces

Message	Explanation
Invalid BAS-IPv6.	Invalid BAS-IPv6.
Failed to change method of the interface, because it is enabled with portal.	Failed to change method of the interface, because it is enabled with portal.
Portal detection configuration is not complete.	Portal detection configuration is not complete.
Portal Web server configuration is not complete.	Portal Web server configuration is not complete.

Portal/WebServers

Message	Explanation
The portal Web server doesn't exist.	The portal Web server doesn't exist.
The URL parameter of this type already exists.	The URL parameter of this type already exists.

Portal/LocalWebServers

Message	Explanation
Please specify an SSL server policy.	Please specify an SSL server policy.
HTTPS has been configured for the local portal Web server and the SSL server policy name can't be modified.	HTTPS has been configured for the local portal Web server and the SSL server policy name can't be modified.
The specified port is being used by another service. Please specify another port.	The specified port is being used by another service. Please specify another port.
The local-portal Web server doesn't exist.	The local-portal Web server doesn't exist.
Failed to configure the local portal Web server because of port conflict. Please specify another port.	Failed to configure the local portal Web server because of port conflict. Please specify another port.
Failed to configure HTTPS for the local portal Web server because of SSL server policy isn't exist. Please check SSL server policy.	Failed to configure HTTPS for the local portal Web server because of SSL server policy isn't exist. Please check SSL server policy.
Portal detection configuration is not complete.	Portal detection configuration is not complete.
Failed to configure the trap action because this action is not supported.	Failed to configure the trap action because this action is not supported.

Portal/IPv4ServiceTemplates

Message	Explanation
Portal detection configuration is not complete.	Portal detection configuration is not complete.

Portal Web server configuration is not complete.	Portal Web server configuration is not complete.
The service-template doesn't exist.	The service-template doesn't exist.

Portal/IPv6ServiceTemplates

Message	Explanation
Portal detection configuration is not complete.	Portal detection configuration is not complete.
Portal Web server configuration is not complete.	Portal Web server configuration is not complete.
The service-template doesn't exist.	The service-template doesn't exist.

Portal/SelfDefDevTypePage

Message	Explanation
Please specify a custom authentication page file.	Please specify a custom authentication page file.

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PPP

PPP/PPPAuthMode/Table

This table contains the information about using **ppp authentication-mode** to configure PPP authentication.

XML structure

```
<PPP>
  <PPPAuth>
    <AuthMode>
      <IfIndex></IfIndex>
      <Mode></Mode>
      <Callin></Callin>
      <Domain></Domain>
    </AuthMode>
  </PPPAuth>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPAuth
Table type	Multi-instance table
Row name	AuthMode
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface cpos interface async interface aux interface serial 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 "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Mode	Authentication mode.	N/A	Enumeration: <ul style="list-style-type: none"> • 1—pap. • 2—chap. • 4—ms-chap. • 8—ms-chap-v2. 	PPP authentication includes the following categories: PAP and CHAP and ms-chap and ms-chap-v2. You can configure multiple authentication modes. For example the Mode is 10 when Authentication mode types are chap and ms-chap-v2
Callin	Authenticates the call-in users only.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	Authenticates the call-in users only. This keyword can be configured when the local end acts as the receiving end of DDR calls.
Domain	ISP domain name.	N/A	String, case-insensitive. Length: 1 to 255 characters.	Specifies the ISP domain name for authentication.

PPP/PPPPUserPap/Table

This table contains the information about PPP Pap.

XML structure

```

<PPP>
  <PPPPUserPap>
    <UserPap>
      <IfIndex></IfIndex>
      <UserName></UserName>
      <PassWord></PassWord>
    </UserPap>
  </PPPPUserPap>
</PPP>

```


Table description

Item	Description
Feature name	PPP
Table name	PPPUsePap
Table type	Multi-instance table
Row name	UserPap
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface pos interface async interface aux interface serial 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 "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
UserName	Username of Pap mode	N/A	String. case-sensitive. Length: 1 to 80 characters.	N/A
PassWord	Password of Pap mode	N/A	String. case-sensitive. Length: 1 to 255 characters.	N/A

PPP/PPPDNS/Table

This table contains the information of PPP DNS server IP addresses.

XML structure

```
<PPP>
  <PPPDNS>
    <IpcpDNS>
      <IfIndex></IfIndex>
      <PriAddr></PriAddr>
      <SecAddr></SecAddr>
    </IpcpDNS>
  </PPPDNS>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPDNS
Table type	Multi-instance table
Row name	IpcpDNS
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface cpos interface async interface aux interface serial 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 "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

Column name	Column description	Column type	Data type and restrictions	Remarks
PriAddr	Specifies a primary DNS server IP address.	N/A	String, dotted decimal notation.	N/A
SecAddr	Specifies a secondary DNS server IP address.	N/A	String, dotted decimal notation.	N/A

PPP/PPPOuserChap/Table

This table contains the information about using PPP authentication-mode chap to configure PPP authentication.

XML structure

```

<PPP>
  <PPPOuserChap>
    <UserChap>
      <IfIndex></IfIndex>
      <UserName></UserName>
      <PassWord></PassWord>
    </UserChap>
  </PPPOuserChap>
</PPP>

```

Table description

Item	Description
Feature name	PPP
Table name	PPPOuserChap
Table type	Multi-instance table
Row name	UserChap
Restrictions	<p>This table supports interface types:</p> <ul style="list-style-type: none"> virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface pos interface async interface aux interface serial 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 "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
UserName	Username of chap mode	N/A	String. case-sensitive. Length: 1 to 80 characters.	N/A
PassWord	Password of chap mode	N/A	String. case-sensitive. Length: 1 to 255 characters.	N/A

PPP/PPPIpPool/Table

This table contains ip pool of PPP configuration information.

XML structure

```
<PPP>
  <PPPIpPool>
    <IpPool>
      <GroupName></GroupName>
      <PoolName></PoolName>
      <StartIPAddr></StartIPAddr>
      <EndIPAddr></EndIPAddr>
    </IpPool>
  </PPPIpPool>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPIpPool
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
GroupName	PPP ip pool group name	Index	String, case sensitive. Length: 1 to 31 characters.	Group name must be "default" when you set the default group.
PoolName	PPP ip pool name	Index	String, case sensitive. Length: 1 to 31 characters.	N/A
StartIPAddr	Start IP address of IP address range in a PPP address pool for dynamic allocation	Index	String, dotted decimal notation.	N/A
EndIPAddr	End IP address of IP address range in a PPP address pool for dynamic allocation	Index	String, dotted decimal notation.	It is equal with the StartIPAddr when it is empty. EndIPAddr must be no less than the StartIPAddr.

PPP/PPPRmtAddr/Table

This table contains PPP remote address configuration information.

XML structure

```

<PPP>
  <PPPRmtAddr>
    <RmtAddr>
      <IfIndex></IfIndex>
      <IPAddress></IPAddress>
      <PoolName></PoolName>
    </RmtAddr>
  </PPPRmtAddr>
</PPP>

```

Table description

Item	Description
Feature name	PPP
Table name	PPPRmtAddr
Table type	Multi-instance table

Row name	RmtAddr
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 IfMgr in Ifmgr NETCONF XML API Configuration Reference.
IPaddress	Start IP address of IP address range in a PPP address pool for dynamic allocation	N/A	String, dotted decimal notation.	N/A
PoolName	PPP ip pool name	N/A	String, case sensitive. Length: 1 to 31 characters.	N/A

PPP/PPPDNSAccept/Table

This table contains PPP ipcp dns admit-any configuration information.

XML structure

```

<PPP>
  <PPPDNSAccept>
    <DNSAdmitAny>
      <IfIndex></IfIndex>
      <AdmitAny></AdmitAny>
    </DNSAdmitAny>
  </PPPDNSAccept>
</PPP>

```

Table description

Item	Description
Feature name	PPP

Table name	PPPDNSAccept
Table type	Multi-instance table
Row name	DNSAdmitAny
Restrictions	<p>This table supports interface types:</p> <p>virtual-template interface</p> <p>virtual-ppp interface/subinterface</p> <p>analogmodem interface</p> <p>isdn bri interface</p> <p>cpos interface</p> <p>async interface</p> <p>aux interface</p> <p>serial interface</p>
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.
AdmitAny	Configure an interface to accept the DNS server IP address assigned by the peer.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	You can config an interface to accept the DNS server IP address assigned by the peer, through which domain names can be resolved for the device.

PPP/PPPDNSRequest/Table

This table contains PPP ipcp dns admit-any configuration information.

XML structure

```

<PPP>
  <PPPDNSRequest>
    <DNSRequest>
      <IfIndex></IfIndex>
    
```



```

    <Request></Request>
  </DNSRequest>
</PPPDNSRequest>
</PPP>

```

Table description

Item	Description
Feature name	PPP
Table name	PPPDNSRequest
Table type	Multi-instance table
Row name	DNSRequest
Restrictions	<p>This table supports interface types:</p> <ul style="list-style-type: none"> virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface cpos interface async interface aux interface serial 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 "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
Request	Configure an interface to actively request the DNS server IP address its peer.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	If a device is connected to a provider's access server through a PPP link, you can use this command. Then, the device can obtain the specified DNS server IP address from the access server during IPCP negotiation.

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PPP

PPP/PPPAuthMode/Table

This table contains the information about using ppp authentication-mode to configure PPP authentication.

XML structure

```
<PPP>
  <PPPAuth>
    <AuthMode>
      <IfIndex></IfIndex>
      <Mode></Mode>
      <Callin></Callin>
      <Domain></Domain>
    </AuthMode>
  </PPPAuth>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPAuth
Table type	Multi-instance table
Row name	AuthMode
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface cpos interface async interface aux interface serial interface

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.
Mode	Authentication mode.	N/A	Enumeration: <ul style="list-style-type: none">• 1—pap.• 2—chap.• 4—ms-chap.• 8—ms-chap-v2.	N/A
Callin	Authenticates the call-in users only.	N/A	Boolean: <ul style="list-style-type: none">• true• false	N/A
Domain	ISP domain name.	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

PPP/PPPPUserPap/Table

This table contains the information about PPP Pap.

XML structure

```
<PPP>
  <PPPPUserPap>
    <UserPap>
      <IfIndex></IfIndex>
      <UserName></UserName>
      <PassWord></PassWord>
    </UserPap>
  </PPPPUserPap>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPPUserPap

Table type	Multi-instance table
Row name	UserPap
Restrictions	<p>This table supports interface types:</p> <p>virtual-template interface</p> <p>virtual-ppp interface/subinterface</p> <p>analogmodem interface</p> <p>isdn bri interface</p> <p>pos interface</p> <p>async interface</p> <p>aux interface</p> <p>serial interface</p>

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.
UserName	Username of Pap mode	N/A	String. case-sensitive. Length: 1 to 80 characters.	N/A
PassWord	Password of Pap mode	N/A	String. case-sensitive. Length: 1 to 255 characters.	N/A

PPP/PPPDNS/Table

This table contains the information of PPP DNS server IP addresses.

XML structure

```

<PPP>
  <PPPDNS>
    <IpcpDNS>
      <IfIndex></IfIndex>
      <PriAddr></PriAddr>
      <SecAddr></SecAddr>
    </IpcpDNS>
  </PPPDNS>

```


</PPP>

Table description

Item	Description
Feature name	PPP
Table name	PPPDNS
Table type	Multi-instance table
Row name	lpcpDNS
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface cpos interface async interface aux interface serial interface

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.
PriAddr	Specifies a primary DNS server IP address.	N/A	String, dotted decimal notation.	N/A
SecAddr	Specifies a secondary DNS server IP address.	N/A	String, dotted decimal notation.	N/A

PPP/PPPUserChap/Table

This table contains the information about using PPP authentication-mode Chap to configure PPP authentication.

XML structure

```
<PPP>
  <PPPUserChap>
    <UserChap>
      <IfIndex></IfIndex>
      <UserName></UserName>
      <PassWord></PassWord>
    </UserChap>
  </PPPUserChap>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPUserChap
Table type	Multi-instance table
Row name	UserChap
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface pos interface async interface aux interface serial interface

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
UserName	Username of chap mode	N/A	String. case-sensitive. Length: 1 to 80 characters.	N/A
PassWord	Password of chap mode	N/A	String. case-sensitive. Length: 1 to 255 characters.	N/A

PPP/PPPOEUserNumInfo/Table

This table contains the number of PPPoE user information.

XML structure

```
<PPP>
  <PPPOEUserNumInfo>
    <Num></Num>
  </PPPOEUserNumInfo>
</PPP>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Num	PPPoE user number.	N/A	Unsigned integer.	N/A

PPP/PPPOEUserInfo/Table

This table contains PPPoE user information.

XML structure

```
<PPP>
  <PPPOEUserInfo>
    <PPPOEUser>
      <IfIndex></IfIndex>
      <UserName></UserName>
      <MacAddr></MacAddr>
      <IpAddr></IpAddr>
      <ObjectGroup></ObjectGroup>
    </PPPOEUser>
  </PPPOEUserInfo>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPOEUserInfo
Table type	Multi-instance table
Row name	PPPOEUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index.	Index	Unsigned integer.	Unsigned integer. Value range: 0 to $2^{64} - 1$. Unsigned integer. Value range: 0 to $2^{64} - 1$. This doesn't support name index.
UserName	User name.	N/A	String, dotted decimal notation.	N/A
MacAddr	MAC address .	N/A	String, dotted decimal notation.	N/A
IpAddr	Ip address.	N/A	String, dotted decimal notation.	N/A
ObjectGroup	Group name	N/A	String, dotted decimal notation.	N/A

PPP/PPPUserInfo/Table

This table contains PPP user information.

XML structure

```
<PPP>
  <PPPUserInfo>
    <PPPUser>
      <PPPIndex></PPPIndex>
      <UserType></UserType>
      <State></State>
      <UserName></UserName>
      <MacAddr></MacAddr>
      <IpAddr></IpAddr>
      <IPv6Addr></IPv6Addr>
      <AuthenDomain></AuthenDomain>
      <AuthorDomain></AuthorDomain>
      <VPNInstanceName></VPNInstanceName>
      <UserID></UserID>
      <ServiceVLAN></ServiceVLAN>
      <CustomerVLAN></CustomerVLAN>
      <IPv4Pool></IPv4Pool>
      <IPv6Pool></IPv6Pool>
      <IPv6NDPool></IPv6NDPool>
      <VxLANID></VxLANID>
      <LoginTime></LoginTime>
      <OnlineTime></OnlineTime>
      <RemainTime></RemainTime>
      <UserProfile></UserProfile>
      <GroupUserProfile></GroupUserProfile>
      <InboundCAR></InboundCAR>
      <OutboundCAR></OutboundCAR>
      <InboundPIR></InboundPIR>
      <OutboundPIR></OutboundPIR>
      <IPv4FlowStat></IPv4FlowStat>
      <IPv6FlowStat></IPv6FlowStat>
      <AccessInterface></AccessInterface>
      <BasInterface></BasInterface>
      <CfgInterface></CfgInterface>
    </PPPUser>
  </PPPUserInfo>
</PPP>
```


Table description

Item	Description
Feature name	PPP
Table name	PPPUUserInfo
Table type	Multi-instance table
Row name	PPPUUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PPPIIndex	PPP index.	Index	Unsigned integer.	Unsigned integer. Value range: 0 to 2 ⁶⁴ - 1.
UserType	User Type	N/A	Enumeration: <ul style="list-style-type: none"> 1—LAC. 2—LNS. 3—PPPOA. 4—PPPOE 5—PPPPHY 	N/A
State	PPP Phase	N/A	Enumeration: <ul style="list-style-type: none"> 0—PHASE_DEAD. 1—PHASE_ESTABLISH 2—PHASE_AUTHENTICA TE 3—PHASE_DDRAUTH 4—PHASE_MULTILINK 5—PHASE_NETWORK 6—PHASE_TERMINATE 	N/A
UserName	User name.	N/A	String. Length: 1 to 80 characters.	N/A
MacAddr	MAC address .	N/A	Six groups of two hexadecimal digits, hyphen-separated.	N/A
IpAddr	Ip address.	N/A	String, dotted decimal notation.	N/A
IPv6Addr	IPv6 address	N/A	Hexadecimal string, colon-separated.	N/A
AuthenDomain	Domain name for authentication	N/A	String. Length: 1 to 255 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthorDomain	Domain name for authorization	N/A	String. Length: 1 to 255 characters.	N/A
VPNInstanceName	Authorized VPN instance name	N/A	Length: 1 to 31 characters.	N/A
UserID	User ID assigned to an user in online state	N/A	Unsigned integer	N/A
ServiceVLAN	Service provider VLAN	N/A	Unsigned short.	N/A
CustomerVLAN	Customer VLAN	N/A	Unsigned short.	N/A
IPv4Pool	PPP IPCP address pool name	N/A	String. Length: 1 to 31 characters.	N/A
IPv6Pool	PPP IPV6 address pool name	N/A	String, Length: 1 to 63 characters.	N/A
IPv6NDPool	PPP IPV6 ND prefix address pool name	N/A	String, Length: 1 to 63 characters.	N/A
VxLANID	VXLAN ID	N/A	Unsigned integer.	N/A
LoginTime	User login time	N/A	DateTime.	Example: YYYY-MM-DDT hh:mm:ss
OnlineTime	User online time	N/A	DateTime.	Example: hh:mm:ss
RemainTime	Session duration from AAA	N/A	Unsigned integer.	Unit: seconds
UserProfile	Authorized User profile name from AAA	N/A	String. Length: 1 to 31 characters.	N/A
GroupUserProfile	Authorized Group user profile name from AAA	N/A	String. Length: 1 to 31 characters.	N/A
InboundCAR	Authorized inbound average rate value	N/A	Unsigned integer.	Unit: kbps
OutboundCAR	Authorized outbound average rate value	N/A	Unsigned integer.	Unit: kbps
InboundPIR	Authorized inbound peak rate value	N/A	Unsigned integer.	Unit: kbps

Column name	Column description	Column type	Data type and restrictions	Remarks
OutboundPIR	Authorized outbound peak rate value	N/A	Unsigned integer.	Unit: kbps
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
AccessInterface	Access interface	N/A	Unsigned integer	N/A
BasInterface	Bas interface	N/A	Unsigned integer	N/A
CfgInterface	Configuration interface	N/A	Unsigned integer	N/A

PPP/PPPIpPool/Table

This table contains ip pool of PPP configuration information.

XML structure

```

<PPP>
  <PPPIpPool>
    <IpPool>
      <GroupName></GroupName>
      <PoolName></PoolName>
      <StartIPAddr></StartIPAddr>
      <EndIPAddr></EndIPAddr>
    </IpPool>
  </PPPIpPool>
</PPP>

```

Table description

Item	Description
Feature name	PPP
Table name	PPPIpPool
Table type	Multi-instance table
Row name	IpPool
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupName	PPP ip pool group name	Index	String, case sensitive. Length: 1 to 31 characters.	Group name must be "default" when you set the default group.
PoolName	PPP ip pool name	Index	String, case sensitive. Length: 1 to 31 characters.	N/A
StartIPAddr	Start IP address of IP address range in a PPP address pool for dynamic allocation	Index	String, dotted decimal notation.	N/A
EndIPAddr	End IP address of IP address range in a PPP address pool for dynamic allocation	Index	String, dotted decimal notation.	It is equal with the StartIPAddr when it is empty. EndIPAddr must be no less than the StartIPAddr.

PPP/PPPRmtAddr/Table

This table contains PPP remote address configuration information.

XML structure

```
<PPP>
  <PPPRmtAddr>
    <RmtAddr>
      <IfIndex></IfIndex>
      <IPaddress></IPaddress>
      <PoolName></PoolName>
    </RmtAddr>
  </PPPRmtAddr>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPRmtAddr
Table type	Multi-instance table
Row name	RmtAddr
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.
IPaddress	Start IP address of IP address range in a PPP address pool for dynamic allocation	N/A	String, dotted decimal notation.	N/A
PoolName	PPP ip pool name	N/A	String, case sensitive. Length: 1 to 31 characters.	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 "Appendix" in Ifmgr NETCONF XML API Configuration Reference.

PPP/PPPDNSAccept/Table

This table contains PPP ipcp dns admit-any configuration information.

XML structure

```

<PPP>
  <PPPDNSAccept>
    <DNSAdmitAny>
      <IfIndex></IfIndex>
      <AdmitAny></AdmitAny>
    </DNSAdmitAny>
  </PPPDNSAccept>
</PPP>

```


Table description

Item	Description
Feature name	PPP
Table name	PPPDNSAccept
Table type	Multi-instance table
Row name	DNSAdmitAny
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface cpos interface async interface aux interface serial interface

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.
AdmitAny	Configure an interface to accept the DNS server IP address assigned by the peer.	N/A	Boolean: <ul style="list-style-type: none">• true.• false.	You can config an interface to accept the DNS server IP address assigned by the peer,through which domain names can be resolved for the device.

PPP/PPPDNSRequest/Table

This table contains PPP ipcp dns admit-any configuration information.

XML structure

```
<PPP>
  <PPPDNSRequest>
    <DNSRequest>
      <IfIndex></IfIndex>
      <Request></Request>
    </DNSRequest>
  </PPPDNSRequest>
</PPP>
```

Table description

Item	Description
Feature name	PPP
Table name	PPPDNSRequest
Table type	Multi-instance table
Row name	DNSRequest
Restrictions	This table supports interface types: virtual-template interface virtual-ppp interface/subinterface analogmodem interface isdn bri interface cpos interface async interface aux interface serial interface

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
Request	Configure an interface to actively request the DNS server IP address its peer.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	If a device is connected to a provider's access server through a PPP link, you can use this command. Then, the device can obtain the specified DNS server IP address from the access server during IPCP negotiation.

PPP/HistoryUserInfo/Table

This table contains PPP history user information.

XML structure

```

<PPP>
  <HistoryUserInfo>
    <HistoryUser>
      <Interval></Interval>
      <Index></Index>
      <TimeStamp></TimeStamp>
      <Num></Num>
    </HistoryUser>
  </HistoryUserInfo>
</PPP>

```

Table description

Item	Description
Feature name	PPP
Table name	HistoryUserInfo
Table type	Multi-instance table
Row name	HistoryUser
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	The time interval of getting user information	Index	Enumeration: <ul style="list-style-type: none"> • 0—hour. • 1—day. 	When Interval = 0, obtain ppp user information at a time every ten minutes. When Interval = 1, obtain ppp user information at a time every one hour.
Index	The serial number of information	Index	Unsigned integer. Value range: 1 to 60.	The smaller the Index, obtained information from the closer now.
TimeStamp	The time when getting information	N/A	Date time	N/A
Num	PPP user total	N/A	Unsigned integer.	N/A

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Comware 7 PPP NETCONF XML API Error Message Reference

PPP/PPPAuthMode

Message	Explanation
Configuration items don't meet the requirements. 不符合配置要求。	The <Mode> column has been set and the < Callin > column has been set to true, but the < Domain > column and the < DefaultDomain > don't been set. <Mode>列存在设置，<Callin>设为真，但<Domain>和<DefaultDomain>行没有设置。
In aux interface, async-mode protocol should be issued first. 在AUX口，async-mode protocol命令应该先下发。	Async-mode protocol should be issued first. Async-mode protocol命令应该先下发
Domain cannot be set as "default". Domain列不能被设置为"default"。	Avoid to conflict with command. 防止与命令行冲突。

PPP/PPPUserPap

Message	Explanation
In aux interface, async-mode protocol should be issued first. 在AUX口，async-mode protocol命令应该先下发。	Async-mode protocol should be issued first. Async-mode protocol命令应该先下发

PPP/PPPDNS

Message	Explanation
Invalid start IPv4 address. 非法的IPv4开始地址。	The <PriAddr> column should be a valid IP address. <PriAddr>列必须是合法的IP地址。
Invalid end IPv4 address. 非法的IPv4结束地址。	The <SecAddr> column should be a valid IP address. <SecAddr>列必须是合法的IP地址。
Configuration items don't meet the requirements. 不符合配置要求。	The <PriAddr> column doesn't been set, but the <SecAddr> column has bee set. <PriAddr>列没有进行配置，但<SecAddr>列存在配置
In aux interface, async-mode protocol should be issued first. 在AUX口，async-mode protocol命令应该先下发。	Async-mode protocol should be issued first. Async-mode protocol命令应该先下发

PPP/PPPUUserChap

Message	Explanation
In aux interface, async-mode protocol should be issued first. 在AUX口，async-mode protocol命令应该先下发。	Async-mode protocol should be issued first. Async-mode protocol命令应该先下发

PPP/PPPipPool

Message	Explanation
Invalid start IPv4 address. 非法的IPv4开始地址。	The <StartIPAddr> column should be a valid IP address. <StartIPAddr>列必须是合法的IP地址。
Invalid end IPv4 address. 非法的IPv4结束地址。	The <EndIPAddr> column should be a valid IP address. <EndIPAddr>列必须是合法的IP地址。
Total IP address number in this range exceeds 65535. 该IP范围内IP地址个数已达上限。	Total IP address number in this range exceeds 65535. 该IP范围内IP地址个数已达上限。
Total IP address number in this pool exceeds 65535. 该IP地址池内IP地址个数已达上限。	Total IP address number in this pool exceeds 65535. 该IP地址池内IP地址个数已达上限。
This pool is not allowed, because the pool is already in another group. 该IP地址池已存在其他组内	This pool is not allowed, because the pool is already in another group. 该IP地址池已存在其他组内
The IP address range overlaps with existing IP address ranges in other group. 该IP地址范围与其他组内的IP地址范围相互覆盖。	The IP address range overlaps with existing IP address ranges in other group. 该IP地址范围与其他组内的IP地址范围相互覆盖。
The start IP address should be less than or equal to the end IP address. 开始IP地址必须小于等于结束IP地址。	The start IP address should be less than or equal to the end IP address. 开始IP地址必须小于等于结束IP地址。
Operation failed, The pool is being used. 操作失败，地址池正在使用。	Operation failed, The pool is being used. 操作失败，地址池正在使用。

PPP/PPPRmtAddr

Message	Explanation
Invalid IPv4 address. 非法的IPv4地址。	The <PAddress> column should be a valid IP address. <IPAddress>列必须是合法的IP地址。
Configuration items don't meet the requirements. 不符合配置要求。	The <PAddress> column and <PoolName > column can't be set at the same time. <PAddress> 和<PoolName >不能同时配置。

PPP/PPPDNSAccept

Message	Explanation
In aux interface,async-mode protocol should be issued first.	Async-mode protocol should be issued first.
在AUX口， async-mode protocol命令应该先下发。	Async-mode protocol命令应该先下发

PPP/PPPDNSRequest

Message	Explanation
In aux interface,async-mode protocol should be issued first.	Async-mode protocol should be issued first.
在AUX口， async-mode protocol命令应该先下发。	Async-mode protocol命令应该先下发

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- PPPOEC 1**
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PPPOEC

PPPOEC/PppoecClient

This table contains PPPOE client configuration information.

XML structure

```
<PPPOEC>
  <PppoecClient>
    <Client>
      <IfIndex></IfIndex>
      <BundleNum></BundleNum>
      <Hostuniq></Hostuniq>
    </Client>
  </PppoecClient>
</PPPOEC>
```

Table description

Item	Description
Feature name	PPPOEC
Table name	PppoecClient
Table type	Multi-instance table
Row name	Client
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 GigabitEthernet interface/subinterface Layer 3 Ten-GigabitEthernet interface/subinterface Layer 3 Forty-GigEthernet interface/subinterface Layer 3 Hundred-GigEthernet interface/subinterface Layer 3 Virtual-Ethernet interface/subinterface Layer 3 WLAN-Ethernet interface/subinterface Layer 3 Twenty-GigEthernet interface/subinterface Layer 3 Smartrate-Ethernet interface/subinterface Layer 3 EFM interface/subinterface Layer 3 Eth-channel interface/subinterface VLAN 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.	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.
BundleNum	PPPOE client bundle number	Index	Unsigned integer. Value range: MinBundleNum to MaxBundleNum.	The value of MinBundleNum and MaxBundleNum depend on the device model.
Hostuniq	Whether is Host-Uniq is enable or not.	N/A	Boolean: <ul style="list-style-type: none"> • true(default) • false. 	N/A

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PPPOEC

PPPOEC/PppoecClient

This table contains ip pool of PPPOE client configuration information.

XML structure

```
<PPPOEC>
  <PppoecClient>
    <Client>
      <IfIndex></IfIndex>
      <BundleNum></BundleNum>
      <Hostuniq></Hostuniq>
    </Client>
  </PppoecClient>
</PPPOEC>
```

Table description

Item	Description
Feature name	PPPOEC
Table name	PppoecClient
Table type	Multi-instance table
Row name	Client
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 GigabitEthernet interface/subinterface Layer 3 Ten-GigabitEthernet interface/subinterface Layer 3 Forty-GigEthernet interface/subinterface Layer 3 Hundred-GigEthernet interface/subinterface Layer 3 Virtual-Ethernet interface/subinterface Layer 3 WLAN-Ethernet interface/subinterface Layer 3 Twenty-GigEthernet interface/subinterface Layer 3 Smartrate-Ethernet interface/subinterface Layer 3 EFM interface/subinterface Layer 3 Eth-channel interface/subinterface VLAN interface

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.
BundleNum	PPPOE client bundle number	Index	Unsigned integer. Value range: MinBundleNum to MaxBundleNum.	The value of MinBundleNum and MaxBundleNum depend on the device model.
Hostuniq	Whether is Host-Uniq is enable or not.	N/A	Boolean: <ul style="list-style-type: none">• true• false.	N/A

PPPOEC/PppoecSpecification

This table contains PPPOEC specification information.

XML structure

```
<PPPOEC>
  <PppoecSpecification>
    <MinBundleNum></MinBundleNum>
    <MaxBundleNum></MaxBundleNum>
  </PppoecSpecification>
</PPPOEC>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinBundleNum	The minimum of bundle number.	N/A	Unsigned integer.	N/A
MaxBundleNum	The maximum of bundle number.	N/A	Unsigned integer.	N/A

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Comware 7 PPPOEC NETCONF XML API Error Message Reference 1

 PPPOEC/PppoecClient 1

Comware 7 PPPOEC NETCONF XML API Error Message Reference

PPPOEC/PppoecClient

Message	Explanation
Failed to enable the PPPoE client. 创建PPPOE会话客户端失败。	Failed to enable the PPPoE client. 创建PPPOE会话客户端失败。
Failed to disable the PPPoE client. 删除PPPOE会话客户端失败。	Failed to disable the PPPoE client. 删除PPPOE会话客户端失败。
Operation failed because the bundle-number is occupied by another interface. 操作失败，该Bundle编号已经被其他接口占用。	The dialer bundle number is occupied by another interface. dialer bundle number已被别的接口占用。
The value is out of range. 参数值超出范围。	The dialer bundle number is out of range. 配置的dialer bundle number超出范围。

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PPPOES

PPPOES/PppoesBind/Table

This table contains the information about using **pppoe-server bind** to enable the PPPoE server on an interface and bind the interface to a VT interface.

XML structure

```
<PPPOES>
  <PppoesBind>
    <BindVT>
      <IfIndex></IfIndex>
      <VTNum></VTNum>
    </BindVT>
  </PppoesBind>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesBind
Table type	Multi-instance table
Row name	BindVT
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 GigabitEthernet interface/subinterface Layer 3 Ten-GigabitEthernet interface/subinterface Layer 3 Forty-GigEthernet interface/subinterface Layer 3 Hundred-GigEthernet interface/subinterface Layer 3 Virtual-Ethernet interface/subinterface Layer 3 VE L3VPN interface/subinterface Layer 3 Smartrate-Ethernet interface/subinterface Layer 3 EFM interface/subinterface Layer 3 reth 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 "Appendix" in Ifmgr NETCONF XML API Configuration Reference.
VTNum	VT number.	N/A	Unsigned integer.	The value of VTNum depends on the device model.

PPPOES/PppoesIfLimit/Table

This table contains PPPOE server sessions limit on interface configuration information.

XML structure

```
<PPPOES>
  <PppoesIfLimit>
    <IfLimit>
      <IfIndex></IfIndex>
      <LimitIf></LimitIf>
      <LimitClnMac></LimitClnMac>
    </IfLimit>
  </PppoesIfLimit>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesIfLimit
Table type	Multi-instance table
Row name	IfLimit
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 GigabitEthernet interface/subinterface Layer 3 Ten-GigabitEthernet interface/subinterface

	Layer 3 Forty-GigEthernet interface/subinterface
	Layer 3 Hundred-GigEthernet interface/subinterface
	Layer 3 Virtual-Ethernet interface/subinterface
	Layer 3 VE L3VPN interface/subinterface
	Layer 3 Smartrate-Ethernet interface/subinterface
	Layer 3 EFM interface/subinterface
	Layer 3 reth interface/subinterface
	VLAN interface
Support for row creation and deletion	PPPOES

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.
LimitIf	The maximum number of PPPoE sessions on an interface.	N/A	Unsigned integer. Value range: 1 to 65534. Default: 65534.	N/A
LimitClnMac	The maximum number of PPPoE sessions for a user	N/A	Unsigned integer. Value range: 1 to 65534. Default: 1.	N/A

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PPPOES

PPPOES/PppoesBind/Table

This table contains the information about using **pppoe-server bind** to enable the PPPoE server on an interface and bind the interface to a VT interface.

XML structure

```
<PPPOES>
  <PppoesBind>
    <BindVT>
      <IfIndex></IfIndex>
      <VTNum></VTNum>
    </BindVT>
  </PppoesBind>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesBind
Table type	Multi-instance table
Row name	BindVT
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 GigabitEthernet interface/subinterface Layer 3 Ten-GigabitEthernet interface/subinterface Layer 3 Forty-GigEthernet interface/subinterface Layer 3 Hundred-GigEthernet interface/subinterface Layer 3 Virtual-Ethernet interface/subinterface Layer 3 VE L3VPN interface/subinterface Layer 3 Smartrate-Ethernet interface/subinterface Layer 3 EFM interface/subinterface Layer 3 reth interface/subinterface VLAN interface

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.
VTNum	VT number.	N/A	Unsigned integer.	The value of VTNum depends on the device model.

PPPOES/PppoesIfLimit/Table

This table contains PPPOE server sessions limit on interface configuration information.

XML structure

```
<PPPOES>
  <PppoesIfLimit>
    <IfLimit>
      <IfIndex></IfIndex>
      <LimitIf></LimitIf>
      <LimitClnMac></LimitClnMac>
    </IfLimit>
  </PppoesIfLimit>
</PPPOES>
```

Table description

Item	Description
Feature name	PPPOES
Table name	PppoesIfLimit
Table type	Multi-instance table
Row name	IfLimit
Restrictions	This table supports interface types: Layer 3 Ethernet interface/subinterface Layer 3 GigabitEthernet interface/subinterface Layer 3 Ten-GigabitEthernet interface/subinterface

Layer 3 Forty-GigEthernet interface/subinterface
Layer 3 Hundred-GigEthernet interface/subinterface
Layer 3 Virtual-Ethernet interface/subinterface
Layer 3 VE L3VPN interface/subinterface
Layer 3 Smartrate-Ethernet interface/subinterface
Layer 3 EFM interface/subinterface
Layer 3 reth interface/subinterface
VLAN interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
lflIndex	Interface index.	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about lflIndex, see "Appendix" in lfmgr NETCONF XML API Configuration Reference.
limitlfl	The maximum number of PPPoE sessions on an interface.	N/A	Unsigned integer. Value range: 1 to 65534.	N/A
limitClnMac	The maximum number of PPPoE sessions for a user	N/A	Unsigned integer. Value range: 1 to 65534.	N/A

PPPOES/PppoesSpecification/Table

This table contains the information about specification of VT number.

XML structure

```

<PPPOES>
  <PppoesSpecification>
    <MinVTNum></MinVTNum>
    <MaxVTNum></MaxVTNum>
  </PppoesSpecification>
</PPPOES>

```


Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
MinVTNum	Min VT number	N/A	Unsigned intege	N/A
MaxVTNum	Max VT number	N/A	Unsigned intege	N/A

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Comware 7 PPPOES NETCONF XML API Error Message Reference

PPPOES/PppoesIfLimit

Message	Explanation
Config interface session limit failed. 配置接口上所能创建PPPoE会话的最大数目失败。	For some reasons like invalid parameter,Config interface session limit failed. 因为参数不在合法范围内等原因，配置接口下最大PPPoE会话限制失败。
Config session limit per client MAC failed. 配置接口上每个用户所能创建PPPoE会话的最大数目失败。	For some reasons like invalid parameter,Config session limit per client MAC failed. 因为参数不在合法范围内等原因，配置每个MAC地址对应的最大PPPoE会话数失败。

PPPOES/PppoesBind

Message	Explanation
Another virtual template is bound with the interface. To bind a new one, remove the existing binding first. 该接口已绑定其他VT口。如果想绑定新的VT口，先删除已经绑定的VT口。	The interface can bind one virtual template. To bind a new one, remove the existing binding first. 接口下只能绑定一个VT口，绑定新VT需要先删除旧的。
The operation is not supported on this interface. 接口上不支持该操作。	The operation is not supported on this interface. 接口上不支持该操作。
Failed to config PPPoE server. 配置失败。	Failed to config PPPoE server. 配置失败。
Operation failed. You can execute this command only after all users on the interface go offline. 操作失败。在此接口所有用户下线后你才能执行这条命令。	You can execute this command only after all users on the interface go offline. 有用户在线不能去捆绑VT口。
Failed to Craete Bas-interface. 创建Bas接口失败。	Failed to Craete Bas-interface. 创建Bas接口失败。
The specified virtual-template interface doesn't exist. 指定的VT口不存在。	You can execute this command only after the specified virtual-template interface exist. VT口存在才能做PPPOES捆绑。
The VTNum cannot be bigger than the supported max VTNum. 下发的VTNum不能大于设备支持的最大VTNum。	The VTNum is out of range. 配置的VTNum超出范围。

PPPOES/PppoesAccessDelay

Message	Explanation
The configuration doesn't meet the requirements. 当前配置不符合配置要求。	The configuration parameter is incomplete. 配置参数不全。

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XML structure	5
Table description	5
Columns	5

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: <ul style="list-style-type: none">1—dot11e2—dot1p3—dscp4—exp5—IP precedence6—Local precedence7—User priority	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Target	The target type of priority.	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Uncolored. 1—Green. 2—Yellow. 3—Red. 	N/A
Direction	The direction of priority mapping table.	Index	Enumeration: <ul style="list-style-type: none"> 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
			<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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). <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">1—dot11e2—dot1p3—dscp4—exp5—IP precedence6—Local precedence7—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
			<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Uncolored. 1—Green. 2—Yellow. 3—Red. 	N/A
Direction	The direction of priority mapping table.	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
			<ul style="list-style-type: none"> 5—IP precedence. 6—Dot11e. 7—Auto. 	
Override	Whether overwrite the original priority carried in the packet	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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
			<ul style="list-style-type: none"> • 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

Contents

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PRIMAP

PRIMAP

Message	Explanation
Failed to configure the mapping. 配置映射表失败。	Failed to configure the mapping. 配置映射表失败。
Failed to set the port priority. 配置端口优先级失败。	Failed to set the port priority. 配置端口优先级失败。
Failed to set the priority trust mode. 配置端口信任模式失败。	Failed to set the priority trust mode. 配置端口信任模式失败。

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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: <ul style="list-style-type: none">• 0—IPv4.• 1—IPv6.• 2—FQDN.	The value 2 for IpType is not supported currently. 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.
Host	RADIUS authentication	Index NULL is	IPv4: String, dotted decimal notation.	If the IpType value is 0, this column represents

Column name	Column description	Column type	Data type and restrictions	Remarks
	server.	allowed.	IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255 characters.	the IPv4 address of the server. If the IpType value is 1, this column represents the IPv6 address of the server. 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	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: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> • 0—IPv4. • 1—IPv6. • 2—FQDN. 	The value 2 for IpType is not supported currently. 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.
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. If the IpType value is 1, this column represents the IPv6 address of the server. 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	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: <ul style="list-style-type: none"> • 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
AuthErrThreshhold	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: <ul style="list-style-type: none"> AuthServerDown. AuthServerUp. AcctServerDown. AcctServerUp. AuthErrReachThreshold. 	N/A
AuthServerDown	Whether to send a notification after a RADIUS authentication server is down	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	Default: false.
AuthServerUp	Whether to send a notification after a RADIUS authentication server is up	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	Default: false.
AcctServerDown	Whether to send a notification after a RADIUS accounting server is down	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	Default: false.
AcctServerUp	Whether to send a notification after a RADIUS accounting server is up	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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
				<p>TimeUnitage column. If the TimeUnitage column is not set, the unit is minute.</p> <p>The device converts the interval value to a value in seconds even if the configured measurement unit is minute.</p> <p>After the realtime accounting interval is set, only deleting the TimeUnitage column does not affect the interval.</p>
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: <ul style="list-style-type: none"> 0—keep-original. 1—with-domain. 2—without-domain. 	Default: 1.
BytesUnit	Data flow measurement unit for traffic statistics	N/A	Enumeration: <ul style="list-style-type: none"> 0—byte. 1—kilo-byte. 2—mega-byte. 3—giga-byte. 	Default: 0.
PacketsUnit	Packet measurement unit for traffic statistics	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Standard. 1—CAR. 	Default: 0.
AcctOnEnable	Whether to enable the accounting-on feature	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">0—Primary authentication server.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 2—FQDN. 	The value 2 for IpType is not supported currently. 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.
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. If the IpType value is 1, this column represents the IPv6 address of the server. 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	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>
        <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: <ul style="list-style-type: none">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	Index	Enumeration:	The value 2 for IpType

Column name	Column description	Column type	Data type and restrictions	Remarks
	RADIUS accounting server address		<ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 2—FQDN. 	is not supported currently. 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.
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. If the IpType value is 1, this column represents the IPv6 address of the server. 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	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>

```



```

    </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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
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: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none">• 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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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
AuthErrThres 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: <ul style="list-style-type: none"> AuthServerDown. AuthServerUp. AcctServerDown. AcctServerUp. AuthErrReachThreshold. 	N/A
AuthServerDown	Whether to send a notification after a RADIUS authentication server is down	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	Default: false.
AuthServerUp	Whether to send a notification after a RADIUS authentication server is up	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	Default: false.
AcctServerDown	Whether to send a notification after a RADIUS accounting server is down	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	Default: false.
AcctServerUp	Whether to send a notification after a RADIUS accounting server is up	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
```



```

    <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: <ul style="list-style-type: none"> 0—keep-original. 1—with-domain. 2—without-domain. 	Default: 1.
BytesUnit	Data flow measurement unit for traffic statistics	N/A	Enumeration: <ul style="list-style-type: none"> 0—byte. 1—kilo-byte. 2—mega-byte. 3—giga-byte. 	Default: 0.
PacketsUnit	Packet measurement unit for traffic statistics	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Standard. 1—CAR. 	Default: 0.
AcctOnEnable	Whether to enable the accounting-on feature	N/A	Boolean: <ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 2—FQDN. 	The value 2 for IpType is not supported currently. 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.
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. If the IpType value is 1, this column represents the IPv6 address of the server. 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	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">0—Primary accounting server.1—Secondary accounting server.	N/A

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 address	Index	Enumeration: <ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 2—FQDN. 	The value 2 for IpType is not supported currently. 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.
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. If the IpType value is 1, this column represents the IPv6 address of the server. 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	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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

Item	Description
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 name	Index	String, case-sensitive. Length: 1 to 31 characters.	N/A
IpType	Type of the DAE client IP address	Index	Enumeration: <ul style="list-style-type: none"> 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>
      </AuthServer>
    </AuthServers>
  </Statistic>
</Radius>

```



```

    <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: <ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 2—FQDN. 	The value 2 for IpType is not supported currently. 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.
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. If the IpType value is 1, this column represents the IPv6 address of the server. 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				reports an error.
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 invalid) received from this server	N/A	Unsigned integer.	N/A
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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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
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>
      </AcctServer>
    </AcctServers>
  </Statistic>
</Radius>

```



```

    <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>
    <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: <ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 2—FQDN. 	The value 2 for IpType is not supported currently. The value in this column is valid only when the IpType value is available. If either the IpType value or the Host value is

Column name	Column description	Column type	Data type and restrictions	Remarks
				unavailable, the system reports an error.
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. If the IpType value is 1, this column represents the IPv6 address of the server. 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	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 Accounting-Request packets retransmitted to this server	N/A	Unsigned integer.	Retransmissions include the retries in 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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 some other reason	N/A	Unsigned integer.	N/A
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	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	this server			
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 request packets	N/A	Unsigned integer.	The CheckFail and UnknownType statistics 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	<ul style="list-style-type: none"> The configuration takes effect on the following items: <ul style="list-style-type: none"> Radius/Client/Schemes table: <AuthenKey></AuthenKey> <AcctKey></AcctKey> Radius/Client/AuthServers table: <Key></Key> Radius/Client/AcctServers table: <Key></Key> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				types.

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Radius/Server/DaeClients	2
Radius/AcctServerState	3

Radius

Radius/Client/GlobalNasIps

Message	Explanation
Maximum number of NAS-IP addresses already reached.	Maximum number of NAS-IP addresses already reached.
Invalid IP address.	Invalid IP address.

Radius/Client/ServerTestProfiles

Message	Explanation
The number of test-profile has reached the maximum.	The number of test-profile has reached the maximum.

Radius/Client/Schemes

Message	Explanation
Invalid IP address.	Invalid IP address.
The number of RADIUS schemes has reached the maximum.	The number of RADIUS schemes has reached the maximum.
The RADIUS scheme does not exist.	The RADIUS scheme does not exist.

Radius/Client/AuthServers

Message	Explanation
Invalid IP address.	Invalid IP address.
The specified server does not exist.	The specified server does not exist.
The IP addresses of the primary and secondary servers must be different.	The IP addresses of the primary and secondary servers must be different.
Maximum number of RADIUS servers already reached.	Maximum number of RADIUS servers already reached.

Radius/Client/AcctServers

Message	Explanation
Invalid IP address.	Invalid IP address.
The specified server does not exist.	The specified server does not exist.
The IP addresses of the primary and secondary servers must be different.	The IP addresses of the primary and secondary servers must be different.
Maximum number of RADIUS servers already reached.	Maximum number of RADIUS servers already reached.

Radius/Server/SessCtrlClients

Message	Explanation
Invalid IP address.	Invalid IP address.

Radius/Server/DaeService

Message	Explanation
Can't set the DAE listening port when disabling RADIUS DAE.	Can't set the DAE listening port when disabling RADIUS DAE.
Can't set the DAE listening port when RADIUS DAE is disabled.	Can't set the DAE listening port when RADIUS DAE is disabled.

Radius/Server/DaeClients

Message	Explanation
Invalid IP address.	Invalid IP address.

Radius/AuthServerState

Message	Explanation
Invalid IP address.	Invalid IP address.

Radius/AcctServerState

Message	Explanation
Invalid IP address.	Invalid IP address.

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Table description	9
Columns	9

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
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

Column name	Column description	Column type	Data type and restrictions	Remarks
				descriptions.
PermitAllInterface	Whether to allow access to all interfaces	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default value is true.
PermitAllVLAN	Whether to allow access to all VLANs	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default value is true.
PermitAllVRF	Whether to allow access to all VRFs	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default value is true.
PermitAllSecZone	Whether to allow access to all security zones	N/A	Boolean: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> 0—permit. 1—deny. 	N/A
ReadOperation	Whether it is a read operation	N/A	Boolean: <ul style="list-style-type: none"> true false 	Perform a read operation on the entity.
WriteOperation	Whether it is a write operation	N/A	Boolean: <ul style="list-style-type: none"> true false 	Perform a write operation on the entity.
ExecOperation	Whether it is an execute operation	N/A	Boolean: <ul style="list-style-type: none"> true false 	Perform an execute operation on the entity.
EntityType	Type of the entity	N/A	Enumeration: <ul style="list-style-type: none"> 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.
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.	For information about different types of entities, see the RBAC configuration in the user manual.

Column name	Column description	Column type	Data type and restrictions	Remarks
			Length: 1 to 255 characters. XML element: String. Length: 1 to 255 characters. SNMP OID: String. Length: 1 to 255 characters.	

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
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.
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	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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XML structure	7
Table description	7
Columns	7
RBAC/Features	8
XML structure	8
Table description	8
Columns	8
RBAC/FeatureGroups	8
XML structure	8
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: <ul style="list-style-type: none"> true false 	The default value is true.
PermitAllVLAN	Whether to allow access to all VLANs	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default value is true.
PermitAllVRF	Whether to allow access to all VRFs	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default value is true.
PermitAllSecZone	Whether to allow access to all security zones	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default value is true.
IsPreDefined	Whether it is a predefined role	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—permit. 1—deny. 	N/A
ReadOperation	Whether it is a read operation	N/A	Boolean: <ul style="list-style-type: none"> true false 	Perform a read operation on the entity.
WriteOperation	Whether it is a write operation	N/A	Boolean: <ul style="list-style-type: none"> true false 	Perform a write operation on the entity.
ExecOperation	Whether it is an execute operation	N/A	Boolean: <ul style="list-style-type: none"> true false 	Perform an execute operation on the entity.
EntityType	Type of the entity	N/A	Enumeration: <ul style="list-style-type: none"> 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.
Entity	Entity	N/A	Command: String. Length: 1 to 128 characters.	For information about different types of entities, see the RBAC configuration in the user

Column name	Column description	Column type	Data type and restrictions	Remarks
			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.	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
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
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/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	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	Index	String.

Column name	Column description	Column type	Data type and restrictions
	security zone		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: <ul style="list-style-type: none"> true false

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	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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RBAC/FeatureGroups.....	2

RBAC

RBAC/Roles

Message	Explanation
Can't delete or modify this system predefined user role.	Can't delete or modify this system predefined user role.
Maximum number of user roles already reached.	Maximum number of user roles already reached.
The user role doesn't exist.	The user role doesn't exist.

RBAC/Rules

Message	Explanation
Can't delete or modify this system predefined user role.	Can't delete or modify this system predefined user role.
Maximum number of rules already reached.	Maximum number of rules already reached.
The deny operation should be configured before the permit operation.	The deny operation should be configured before the permit operation.
The user role doesn't exist.	The user role doesn't exist.
Only the middle position of the last segment can contain the wildcard (*).	Only the middle position of the last segment can contain the wildcard (*).
A segment starting with the wildcard (*) can't contain any other characters, and it must be the last segment.	A segment starting with the wildcard (*) can't contain any other characters, and it must be the last segment.
No unprintable characters other than TAB and blank spaces are allowed.	No unprintable characters other than TAB and blank spaces are allowed.
Every segment of the command matching string contains at least one printable character.	Every segment of the command matching string contains at least one printable character.

RBAC/Policies/InterfacePolicies

Message	Explanation
Can't delete or modify this system predefined user role.	Can't delete or modify this system predefined user role.
The deny operation should be configured before the permit operation.	The deny operation should be configured before the permit operation.
The user role doesn't exist.	The user role doesn't exist.
The start and end interfaces must be of the same type, and the end interface number must be greater than the start interface number.	The start and end interfaces must be of the same type, and the end interface number must be greater than the start interface number.

RBAC/Policies/VLANPolicies

Message	Explanation
Can't delete or modify this system predefined user role.	Can't delete or modify this system predefined user role.
The deny operation should be configured before the permit operation.	The deny operation should be configured before the permit operation.
The user role doesn't exist.	The user role doesn't exist.
The end VLAN ID must be greater than the start VLAN ID.	The end VLAN ID must be greater than the start VLAN ID.

RBAC/Policies/VRF Policies

Message	Explanation
Can't delete or modify this system predefined user role.	Can't delete or modify this system predefined user role.
The deny operation should be configured before the permit operation.	The deny operation should be configured before the permit operation.
The user role doesn't exist.	The user role doesn't exist.

RBAC/FeatureGroups

Message	Explanation
The feature group doesn't exist.	The feature group doesn't exist.
Can't delete or modify the system predefined feature group.	Can't delete or modify the system predefined feature group.
Maximum number of feature groups already reached.	Maximum number of feature groups already reached.

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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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Columns	5
RDDC/RedundancyGroupTrack	6
XML structure	6
Table description	6
Columns	6
RDDC/RedundancyGroupNodeMember	7
XML structure	7
Table description	7
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>
      <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: <ul style="list-style-type: none"> 0—Inactive. 1—Active. 	N/A
HoldStatus	Hold status of member interface	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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/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>

```

Table description

Item	Description
Feature name	RDDC
Table name	RedundancyGroupNodeMember
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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RDDC

RDDC/RedundancyInterfaceMember

Message	Explanation
The configuration doesn't meet the requirements.	The configuration doesn't meet the requirements, please modify configuration under guidance.
Number of redundancy groups exceeded the limit.	Number of redundancy groups exceeded the limit, please check the specifications of the device.
The interface is already a member of another Reth interface.	The interface is already a member of another Reth interface, please modify configuration under guidance.
A member interface with the same priority already exists.	A member interface with the same priority already exists, please modify configuration under guidance.
Number of members exceeded the limit on the Reth interface.	Number of members exceeded the limit on the Reth interface, please check the specifications of the device.
This interface is already a member of the Reth interface.	This interface is already a member of the Reth interface, please modify configuration under guidance.
The interface is already a member of a redundancy group.	The interface is already a member of a redundancy group, please modify configuration under guidance.
The configuration doesn't meet the requirements.	The configuration doesn't meet the requirements, please modify configuration under guidance.
Members of a Reth interface can't be members of an aggregation group.	Members of a Reth interface can't be members of an aggregation group, please modify configuration under guidance.

RDDC/RedundancyGroup

Message	Explanation
Number of redundancy groups exceeded the limit.	Number of redundancy groups exceeded the limit, please check the specifications of the device.
Can't delete the redundancy group because it contains members (Reth interfaces or failover groups) or redundancy group nodes.	Can't delete the redundancy group because it contains members (Reth interfaces or failover groups) or redundancy group nodes, please modify configuration under guidance.

RDDC/RedundancyGroupMember

Message	Explanation
The Reth interface is already in another redundancy group.	The Reth interface is already in another redundancy group, please modify configuration under guidance.
The specified redundancy group doesn't exist.	The specified redundancy group doesn't exist, please modify configuration under guidance.

--	--

RDDC/RedundancyFailoverGroup

Message	Explanation
The failover group is already in another redundancy group.	The failover group is already in another redundancy group, please modify configuration under guidance.
Number of failover groups exceeded the limit.	Number of failover groups exceeded the limit, please check the specifications of the device.
Number of Reth interfaces exceeded the limit.	Number of Reth interfaces exceeded the limit, please check the specifications of the device.
The specified redundancy group doesn't exist.	The specified redundancy group doesn't exist please modify configuration under guidance.
The specified failover group doesn't exist.	The specified failover group doesn't exist please modify configuration under guidance.

RDDC/RedundancyGroupNode

Message	Explanation
Please first remove the node and chassis binding.	Invalid configuration, please modify configuration under guidance.
This node has members or Track configuration.	This node has members or Track configuration, please modify configuration under guidance.
The chassis has been bound to the other node of the redundancy group.	The chassis has been bound to the other node of the redundancy group, please modify configuration under guidance.
The specified redundancy group doesn't exist.	The specified redundancy group doesn't exist, please modify configuration under guidance.
Invalid chassis number.	Invalid chassis number, please modify configuration under guidance.
Members of a Reth interface can't be interfaces shared by contexts.	Members of a Reth interface can't be interfaces shared by contexts, please modify configuration under guidance.

RDDC/RedundancyGroupTrack

Message	Explanation
Can't specify the same interface in track entries associated with chassis in the same redundancy group.	Can't specify the same interface in track entries associated with chassis in the same redundancy group, please modify configuration under guidance.
Number of track entries associated with the chassis exceeded the limit.	Number of track entries associated with the chassis exceeded the limit, please modify configuration under guidance.
The track entry has been associated with	The track entry has been associated with another chassis,

another chassis.	please modify configuration under guidance.
Please first bind a chassis to the node.	Invalid configuration, please modify configuration under guidance.
Malloc failure.	The device does not have enough memory resource.
Track entry registration failure.	Track entry registration failure, please modify configuration under guidance.
This interface is not on the chassis bound to the redundancy group.	This interface is not on the chassis bound to the redundancy group, please modify configuration under guidance.
Number of chassis-specific member interfaces exceeded the limit.	Number of chassis-specific member interfaces exceeded the limit, please modify configuration under guidance.
Can't add the interface because it is a member of a Reth interface.	Can't add the interface because it is a member of a Reth interface, please modify configuration under guidance.
This interface has been assigned to another redundancy group.	This interface has been assigned to another redundancy group, please modify configuration under guidance.
The chassis has been bound to another redundancy group.	The chassis has been bound to another redundancy group, please modify configuration under guidance.
The specified redundancy group doesn't exist.	The specified redundancy group doesn't exist, please modify configuration under guidance.
The specified chassis doesn't exist.	The specified chassis doesn't exist, please modify configuration under guidance.

RDDC/RedundancyGroupNodeMember

Message	Explanation
The specified redundancy group doesn't exist.	The specified redundancy group doesn't exist, please modify configuration under guidance.
The specified chassis doesn't exist.	The specified chassis doesn't exist, please modify configuration under guidance.

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ResourceMonitor

ResourceMonitor/Configuration

This table contains usage information about the resource monitor.

XML structure

```
<ResourceMonitor>
  <Configuration>
    <MinorResendEnable></MinorResendEnable>
    <SyslogOutput></SyslogOutput>
    <SnmpNotificationOutput></SnmpNotificationOutput>
    <NetconfEventOutput></NetconfEventOutput>
  </Configuration>
</ResourceMonitor>
```

Table description

Item	Description
Feature name	ResourceMonitor
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
MinorResendEnable	Minor event resend enable monitoring	N/A	Boolean: <ul style="list-style-type: none">• true• false Default: true	N/A
SyslogOutput	output enable for syslog	N/A	Boolean: <ul style="list-style-type: none">• true• false Default: true	N/A
SnmpNotificationOutput	output enable for SNMP notification		Boolean: <ul style="list-style-type: none">• true	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> false Default: true	
NetconfEventOutput	output enable for NETCONF event		Boolean: <ul style="list-style-type: none"> true false Default: true	N/A

ResourceMonitor/Resources

This table contains usage information about the resource monitor.

XML structure

```

<ResourceMonitor>
  < Resources >
    <Resource>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <Name></Name>
      <Unit></Unit>
      <MinorThreshold></MinorThreshold>
      <SevereThreshold></SevereThreshold>
    </Resource>
  </Resources>
</ResourceMonitor>

```

Table description

Item	Description
Feature name	ResourceMonitor
Table name	Resources
Table type	Multi-instance table
Row name	Resource
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
DeviceNode	Position information of the device Node.	Data structure	Members include: <ul style="list-style-type: none"> Chassis Slot CPUID 	N/A
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	CPU Identification.	Index	Unsigned integer. Value range: 0 to 7.	N/A
Name	Resource name	Index	String: Size:1~31	N/A
Unit	Unit of resource monitor threshold	N/A	Enumeration: <ul style="list-style-type: none"> absolute percentage 	N/A
MinorThreshold	The free resource threshold for minor condition	N/A	Unsigned integer. When unit is percentage, value range: 1 to 100. When unit is absolute, value range 0 to $2^{32} - 1$	N/A
SevereThreshold	The free resource threshold for severe condition	N/A	Unsigned integer. When unit is percentage, value range: 1 to 100. When unit is absolute, value range 0 to $2^{32} - 1$	N/A

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Table description.....	2
Columns.....	2
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XML structure	3
Table description.....	4
Columns.....	4

ResourceMonitor

ResourceMonitor/Configuration

This table contains system configuration about the resource monitor.

XML structure

```
<ResourceMonitor>
  <Configuration>
    <MinorResendEnable></MinorResendEnable>
    <SyslogOutput></SyslogOutput>
    <SnmpNotificationOutput></SnmpNotificationOutput>
    <NetconfEventOutput></NetconfEventOutput>
  </Configuration>
</ResourceMonitor>
```

Table description

Item	Description
Feature name	ResourceMonitor
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
MinorResendEnable	Minor event resend enable monitoring	N/A	Boolean: <ul style="list-style-type: none">• true• false Default: true	N/A
SyslogOutput	Output enable for syslog	N/A	Boolean: <ul style="list-style-type: none">• true• false Default: true	N/A
SnmpNotificationOutput	Output enable for SNMP notification		Boolean: <ul style="list-style-type: none">• true• false Default: true	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
NetconfEventOutput	Output enable for NETCONF event		Boolean: <ul style="list-style-type: none"> true false Default: true	N/A

ResourceMonitor/Resources

This table contains thresholds information about the resource monitor.

XML structure

```

<ResourceMonitor>
  <Resources>
    <Resource>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <Name></Name>
      <Unit></Unit>
      <MinorThreshold></MinorThreshold>
      <SevereThreshold></SevereThreshold>
    </Resource>
  </Resources>
</ResourceMonitor>

```

Table description

Item	Description
Feature name	ResourceMonitor
Table name	Resources
Table type	Multi-instance table
Row name	Resource
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: <ul style="list-style-type: none"> Chassis 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> Slot CPUID 	
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	CPU Identification.	Index	Unsigned integer. Value range: 0 to 7.	N/A
Name	Resource name	Index	String: Size:1~31	N/A
Unit	Unit of resource monitor threshold	N/A	Enumeration: <ul style="list-style-type: none"> absolute percentage 	N/A
MinorThreshold	The free resource threshold for minor condition	N/A	Unsigned integer. When unit is percentage, value range: 1 to 100. When unit is absolute, value range 0 to $2^{32} - 1$	N/A
SevereThreshold	The free resource threshold for severe condition	N/A	Unsigned integer. When unit is percentage, value range: 1 to 100. When unit is absolute, value range 0 to $2^{32} - 1$	N/A

ResourceMonitor/Monitors

This table contains usage information about the resource monitor.

XML structure

```

<ResourceMonitor>
  <Monitors>
    <Monitor>
      <DeviceNode>
        <Chassis></Chassis>
        <Slot></Slot>
        <CPUID></CPUID>
      </DeviceNode>
      <Name></Name>
      <Unit></Unit>
      <Used></Used>
      <Free></Free>
      <Total></Total>
    </Monitor>
  </Monitors>
</ResourceMonitor>

```



```

    </Monitor>
  </Monitors>
</ResourceMonitor>

```

Table description

Item	Description
Feature name	ResourceMonitor
Table name	Monitors
Table type	Multi-instance table
Row name	Monitor
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: <ul style="list-style-type: none"> Chassis Slot CPUID 	N/A
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	CPU Identification.	Index	Unsigned integer. Value range: 0 to 7.	N/A
Name	Resource name	Index	String: Size:1~31	N/A
Unit	Unit of resource monitor threshold	N/A	Enumeration: <ul style="list-style-type: none"> absolute percentage 	N/A
Used	Used resource size	N/A	Unsigned integer Value range: 0 to $2^{32} - 1$	N/A
Free	Free resource size	N/A	Unsigned integer Value range: 0 to $2^{32} - 1$	N/A
Total	Total resource size	N/A	Unsigned integer. Value range: 0 to $2^{32} - 1$	N/A

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- ResourceEvent event..... 1
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ResourceEvent event

This event is used to report resource alarm information.

XML structure for event subscription

```
<ResourceEvent>
  <Resource>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Name></Name>
  </Resource>
</ResourceEvent>
```

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>ResourceMonitor</stream>
    <filter type="subtree">
      <ResourceEvent xmlns="http://www.h3c.com/netconf/event:1.0/ResourceMonitor:1.0">
        <Resource>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
          <Name>acl</Name>
        </Resource>
      </ResourceEvent>
    </filter>
  </create-subscription>
</rpc>
```

Table description

Item	Description
Event stream name	ResourceMonitor
Event name	ResourceEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/ResourceMonitor: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 where the device entity	Unsigned integer. Value range: 0 to 65535.	No

Column name	Column description	Data type and restrictions	Support for extended queries
	resides.		
Slot	Slot number of the device node.	Unsigned integer. Value range: 0 to 65535.	No
CPUID	CPU Identification.	Unsigned integer. Value range: 0 to 7.	No
ResourceName	Resource name	String: Size:1~31	No

XML structure for event report

```

<ResourceEvent>
  <Resource>
    <Chassis></Chassis>
    <Slot></Slot>
    <CPUID></CPUID>
    <Name></Name>
    <Description></Description>
    <Uint></Uint>
    <Total></Total>
    <Used></Used>
    <Free></Free>
    <MinorThreshold></MinorThreshold>
    <SevereThreshold></SevereThreshold>
    <AdditionalInfo></AdditionalInfo>
  </Resource>
</ResourceEvent>

```

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>ResourceMonitor</stream>
    <filter type="subtree">
      <ResourceEvent xmlns="http://www.h3c.com/netconf/event:1.0/ResourceMonitor:1.0">
        <Resource>
          <Chassis>0</Chassis>
          <Slot>0</Slot>
          <CPUID>0</CPUID>
          <Name>ACL</Name>
          <Description>RESMON_MINOR</Description>
          <Uint>1</Uint>
          <Total>1000</Total>
          <Used>920</Used>
          <Free>80</Free>
          <MinorThreshold>200</MinorThreshold>

```



```

        <SevereThreshold>100</SevereThreshold>
        <AdditionalInfo>check rip</AdditionalInfo>
    </Resource>
</ResourceEvent>
</filter>
</create-subscription>
</rpc>

```

Table description

Item	Description
Event stream name	ResourceMonitor
Event name	ResourceEvent
Event namespace	http://www.h3c.com/netconf/event:1.0/ResourceMonitor: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 7.	No
Name	Resource name	String: Size:1~31	No
Description	Resmon event description.	Enumeration: <ul style="list-style-type: none"> • RESMON_MINOR • RESMON_SEVERE • RESMON_USEDUP • RESMON_MINOR_RECOVERY • RESMON_SEVERE_RECOVERY • RESMON_USEDUP_RECOVERY 	No
Unit	Unit of resource	Enumeration: <ul style="list-style-type: none"> • absolute • percentage 	No
Total	Total resource size(absolute)	Unsigned integer. Value range: 0 to $2^{32} - 1$	No
Used	Size of the resource used (absolute)	Unsigned integer. Value range: 0 to $2^{32} - 1$	No
Free	Size of the free resource size	Unsigned integer. Value range: 0 to $2^{32} - 1$	No

Column name	Column description	Data type and restrictions	Support for extended queries
MinorThreshold	The free resource threshold for minor condition	Unsigned integer. Value range: 0 to $2^{32} - 1$	No
SevereThreshold	The free resource threshold for severe condition	Unsigned integer. Value range: 0 to $2^{32} - 1$	No
AdditionalInfo	Additional information for the notification.	String: Size:0~255	No

Contents

- WLANClient1
 - WLANClient/ RfpingInformation1
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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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Table description	3
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RIP/Interfaces	4
XML structure	4
Table description	4
Columns	4

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: <ul style="list-style-type: none">• 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> 1—RIPV1 2—RIPV2 3—RIPV2 Broadcast 	N/A
IfEnable	Interface enable messages.	N/A	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Exclude secondary IP addresses. false—Does not exclude secondary IP addresses(default). 	N/A
Input	Whether to receive RIP packets.	N/A	Boolean: <ul style="list-style-type: none"> true—Receive RIP packets (default). false—Does not receive RIP packets. 	N/A
Output	Whether to send RIP packets.	N/A	Boolean: <ul style="list-style-type: none"> true—Send RIP packets (default). false—Does not send RIP packets. 	N/A
Authentication	Authentication messages.	N/A	Members include: <ul style="list-style-type: none"> AuthType. PasswordType. Password. KeyId. 	The members of AuthType, PasswordType and Password must be specified. If AuthType column is Md5Rfc2082, KeyId must be specified.
AuthType	Authentication type.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Simple. 2—Md5Rfc2082. 3—Md5Rfc2453. 	N/A
PasswordType	Password type.	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 1—Ciphertext. 2—Plaintext. 	
Password	Password.	N/A	String. Length: <ul style="list-style-type: none"> 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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XML structure	2
Table description	3
Columns	3
RIP/Interfaces	3
XML structure	3
Table description	4
Columns	4

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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 1—RIPv1 2—RIPv2 3—RIPv2 Broadcast 	N/A
IfEnable	Interface enable messages.	N/A	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Receive RIP packets (default). false—Does not receive RIP packets. 	N/A
Output	Whether to send RIP packets.	N/A	Boolean: <ul style="list-style-type: none"> true—Send RIP packets (default). false—Does not send RIP packets. 	N/A
Authentication	Authentication messages.	N/A	Members include: <ul style="list-style-type: none"> AuthType. PasswordType. Password. KeyId. 	N/A
AuthType	Authentication type.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Simple. 2—Md5Rfc2082. 3—Md5Rfc2453. 	N/A
PasswordType	Password type.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Ciphertext. 2—Plaintext. 	N/A
Password	Password.	N/A	String. Length: <ul style="list-style-type: none"> 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

Contents

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RIP/Instances	2
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RIP

RIP/Instances

Message	Explanation
RIP isn't configured. 没有配置RIP。	RIP isn't configured. 没有配置RIP。
The specified VRF doesn't exist. 指定的VRF不存在。	The specified VRF doesn't exist. 指定的VRF不存在。
The instance is being deleted. RIP实例正在删除。	The instance is being deleted. RIP实例正在删除。
Number of instances exceeded the limit. 实例数量达到上限。	Number of instances exceeded the limit. 实例数量达到上限。
Can't create the instance because another instance is configured with network 0.0.0.0. 其它实例配置了network 0.0.0.0，不能创建新实例。	Can't create the instance because another instance is configured with network 0.0.0.0. 其它实例配置了network 0.0.0.0，不能创建新实例。
The instance isn't associated with the specified VRF. 实例不属于指定的VRF。	The instance isn't associated with the specified VRF. 实例不属于指定的VRF。
The instance doesn't exist. RIP实例不存在。	The instance doesn't exist. RIP实例不存在。
The instance is being reset. 实例正在清除。	The instance is being reset. 实例正在清除。

RIP/Networks

Message	Explanation
RIP isn't configured. 没有配置RIP。	RIP isn't configured. 没有配置RIP。
Invalid network address:%s/%s. 网段地址不合法： %s/%s。	Invalid network address:%s/%s. 网段地址不合法： %s/%s。
The network mask doesn't match the network address:%s/%s. 网段地址和子网掩码不匹配： %s/%s。	The network mask doesn't match the network address:%s/%s. 网段地址和子网掩码不匹配： %s/%s。
The network mask isn't contiguous. 网络掩码不连续。	The network mask isn't contiguous. 网络掩码不连续。
The network overlaps with the previously configured network:%s/%s. 与已指定的网段地址重叠： %s/%s。	The network overlaps with the previously configured network:%s/%s. 与已指定的网段地址重叠： %s/%s。
Can't configure network 0.0.0.0 when multiple	Can't configure network 0.0.0.0 when multiple instances exist.

instances exist. 多个RIP实例存在时，不允许配置命令network 0.0.0.0。	多个RIP实例存在时，不允许配置命令network 0.0.0.0。
The network isn't configured. 网段没有配置。	The network isn't configured. 网段没有配置。

RIP/Redistributes

Message	Explanation
RIP isn't configured. 没有配置RIP。	RIP isn't configured. 没有配置RIP。
Can't be imported to the same instance. 不允许引入RIP协议的当前实例。	Can't be imported to the same instance. 不允许引入RIP协议的当前实例。
The instance doesn't exist. RIP实例不存在。	The instance doesn't exist. RIP实例不存在。
The instance is being reset. 实例正在清除。	The instance is being reset. 实例正在清除。
RedistName attribute column must be empty when the value of Protocol attribute column is 1, 2, or 6. 当Protocol属性值为1、2或者6时，RedistName属性列应该为空。	RedistName attribute column must be empty when the value of Protocol attribute column is 1, 2, or 6. 当Protocol属性值为1、2或者6时，RedistName属性列应该为空。
RedistName attribute column is required when the value of Protocol attribute column is 3, 4, 5, or 7. 当Protocol属性值为3、4、5或7时，RedistName属性列不应该为空。	RedistName attribute column is required when the value of Protocol attribute column is 3, 4, 5, or 7. 当Protocol属性值为3、4、5或7时，RedistName属性列不应该为空。

RIP/Interfaces

Message	Explanation
RIP isn't configured. 没有配置RIP。	RIP isn't configured. 没有配置RIP。
InstanceName attribute columns are required. 需要补齐InstanceName属性列。	InstanceName attribute columns are required. 需要补齐InstanceName属性列。
The interface have already been associated with another instance:%s. 指定接口已属于其他RIP实例： %s。	The interface have already been associated with another instance:%s. 指定接口已属于其他RIP实例： %s。
Number of instances exceeded the limit. 实例数量达到上限。	Number of instances exceeded the limit. 实例数量达到上限。
Can't create the instance because another instance is configured with network 0.0.0.0. 其它实例配置了network 0.0.0.0，不能创建新实例。	Can't create the instance because another instance is configured with network 0.0.0.0. 其它实例配置了network 0.0.0.0，不能创建新实例。
The interface and the instance must be associated	The interface and the instance must be associated with the same

with the same VRF. 接口和实例所属VRF不同。	VRF. 接口和实例所属VRF不同。
AuthType attribute column is required. 需要补齐AuthType属性列。	AuthType attribute column is required. 需要补齐AuthType属性列。
PasswordType attribute column is required. 需要补齐PasswordType属性列。	PasswordType attribute column is required. 需要补齐PasswordType属性列。
Passward attribute column is required. 需要补齐Password属性列。	Passward attribute column is required. 需要补齐Password属性列。
KeyId attribute column is required. 需要补齐KeyId属性列。	KeyId attribute column is required. 需要补齐KeyId属性列。
KeyId attribute column isn't required. 不需要KeyId属性列。	KeyId attribute column isn't required. 不需要KeyId属性列。
Invalid RIP authentication password. RIP认证密码不合法。	Invalid RIP authentication password. RIP认证密码不合法。
RIP isn't configured. 没有配置RIP。	RIP isn't configured. 没有配置RIP。
InstanceName attribute columns are required. 需要补齐InstanceName属性列。	InstanceName attribute columns are required. 需要补齐InstanceName属性列。
The interface have already been associated with another instance:%s. 指定接口已属于其他RIP实例： %s。	The interface have already been associated with another instance:%s. 指定接口已属于其他RIP实例： %s。
Number of instances exceeded the limit. 实例数量达到上限。	Number of instances exceeded the limit. 实例数量达到上限。
Can't create the instance because another instance is configured with network 0.0.0.0. 其它实例配置了network 0.0.0.0，不能创建新实例。	Can't create the instance because another instance is configured with network 0.0.0.0. 其它实例配置了network 0.0.0.0，不能创建新实例。
The interface and the instance must be associated with the same VRF. 接口和实例所属VRF不同。	The interface and the instance must be associated with the same VRF. 接口和实例所属VRF不同。

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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: <ul style="list-style-type: none"> 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: 5 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 1—RisingAlarm. • 2—FallingAlarm. • 3—RisingOrFallingAlarm. 	<p>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.</p> <p>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.</p>
RisingThreshold	A threshold for the sampled statistic.	N/A	Signed integer.	<p>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.</p> <p>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.</p> <p>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.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
FallingThreshold	A threshold for the sampled statistic.	N/A	Signed integer.	<p>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.</p> <p>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.</p> <p>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.</p>
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 entrys 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/MaxUserHistoryObjects in the data namespace.
Objects	The objects to be sampled.	N/A	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. Length: 1 to 255 characters.	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	<p>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.</p> <p>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.</p> <p>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.</p>
FallingThreshold	A falling threshold for the sampled statistic.	N/A	Signed integer. Default: 0.	<p>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.</p> <p>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.</p> <p>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.</p>

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: <ul style="list-style-type: none"> 1—Forever. 2—Cycle. 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: <ul style="list-style-type: none"> 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>

```



```

    <Pkts1024to1518Octets></Pkts1024to1518Octets>
    <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: <ul style="list-style-type: none"> 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 configurated, 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: 5 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: <ul style="list-style-type: none">truefalse	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>
  <CRCAlignErrors></CRCAlignErrors>
  <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
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 $2^{31} - 1$.	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 1—RisingAlarm. • 2—FallingAlarm. • 3—RisingOrFallingAlarm. 	<p>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.</p> <p>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.</p>
RisingThreshold	A threshold for the sampled statistic.	N/A	Signed integer.	<p>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.</p> <p>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.</p> <p>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.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
FallingThreshold	A threshold for the sampled statistic.	N/A	Signed integer.	<p>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.</p> <p>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.</p> <p>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.</p>
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	<p>The value during the current sampling period is not made available until the period is completed.</p> <p>To obtain the true value for this sampling interval, the associated instance of ValStatus must be checked, and AbsValue adjusted as necessary.</p> <p>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.</p> <p>The access control check prescribed in the definition of RMON/UsrHistoryControls/Control/Objects/Variable SHOULD be checked for each sampling interval.</p> <p>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.</p>
ValStatus	Validity and sign of the data.	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> 1—NotAvailable. 2—Positive. 3—Negative. 	<p>If the MIB instance could not be accessed during the sampling interval, then NotAvailable will be returned.</p> <p>If the sample is valid and the actual value of the sample is greater than or equal to zero, then Positive is returned.</p> <p>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.</p>

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. Length: 1 to 255 characters.	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—RisingAlarm. 2—FallingAlarm. 3—RisingOrFallingAlarm. 	<p>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.</p> <p>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.</p>
RisingThreshold	A rising threshold for the sampled statistic.	N/A	Signed integer. Default: 1.	<p>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.</p> <p>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.</p> <p>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.</p>

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.	<p>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.</p> <p>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.</p> <p>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.</p>
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.	<p>If there is no corresponding entry in RMON/Events, then no association exists.</p> <p>In particular, if this value is zero, no associated event will be generated, as zero is not a valid index of RMON/Events.</p>
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.	<p>If there is no corresponding entry in RMON/Events, then no association exists.</p> <p>In particular, if this value is zero, no associated event will be generated, as zero is not a valid index of RMON/Events.</p>
StatType	Type of statistic period.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Forever. 2—Cycle. 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: <ul style="list-style-type: none"> true false 	N/A

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RMON

RMON/EtherStats

Message	Explanation
When you modify a column,make sure the value of column TemporaryStatus is true.	Merge, delete or replace operation failed.
When you create a new row,make sure the value of column TemporaryStatus is false.	Create operation failed.
Please enter a value for the DataSource column to create a new Ethernet statistics entry.	During executing create or replace operation, 'DataSource' must be specified.

RMON/EtherHistoryControls

Message	Explanation
The DataSource column can't be removed.	The DataSource column can't be removed.
Please enter a value for the DataSource column to create a new Ethernet history control entry.	During executing create or replace operation, 'DataSource' must be specified.
An entry with the same datasource and interval already exists.	No need to create a new table.
An entry with the same datasource already exists.	No need to create a new table.

RMON/Alarms

Message	Explanation
When you modify a column,make sure the value of column TemporaryStatus is true.	Merge, delete or replace operation failed.
When you create a new row,make sure the value of column TemporaryStatus is false.	Create operation failed.
The Variable column can't be removed.	'Variable' shows the object identifier of the particular variable to be sampled, and it can't be removed.
Please enter a value for the Variable column to create a new alarm.	'Variable' shows the object identifier of the particular variable to be sampled, and it must be specified.

RMON/UsrHistoryControls

Message	Explanation
When you modify a column,make sure the value of column TemporaryStatus is true.	Merge, delete or replace operation failed.
When you create a new row,make sure the value of column TemporaryStatus is false.	Create operation failed.

Operation failed.The number of objects exceed the value of column Maxobjects.	Create new object failed.
-------------------------------------------------------------------------------	---------------------------

RMON/ExtAlarms

Message	Explanation
When you modify a column,make sure the value of column TemporaryStatus is true.	Merge, delete or replace operation failed.
When you create a new row,make sure the value of column TemporaryStatus is false.	Create operation failed.
Please enter a value for the Variable column to create a new extalarm.	Please specify a dotted decimal notation string.
Please enter a value for the Description column to create a new extalarm.	The 'Description' is a comment describing the alarm entry.
The Variable column can't be removed.	'Variable' shows the object identifier of the particular variable to be sampled, and it can't be removed.
The Description column can't be removed.	The 'Description' can't be removed.

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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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 0—Disabled(default). 1—Enabled. 	N/A

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Columns	13
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XML structure	13
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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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">ProtocolID.SubProtocolID.	N/A
ProtocolID	Routing protocol	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	ID.		<ul style="list-style-type: none"> 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.
ASNummer	Autonomy system.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> BackupIfIndex. BackupNextHop. 	N/A
BackupIfIndex	Backup interface index.	N/A	<ul style="list-style-type: none"> 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 IPv4 address.	N/A	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> ProtocolID. SubProtocolID. 	N/A
ProtocolID	Routing protocol ID.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	<pre><RouteEntry base:filter="IPv6 1::1"> <RouteEntry base:filter="vrf vpn2 IPv6 1::1"></pre>
Ipv6-address longer	Use ipv6-address to get the route entry with the longest prefix.	<pre><RouteEntry base:filter="IPv6 1::1 longer"> <RouteEntry base:filter="vrf vpn2 IPv6 1::1 longer"></pre>
Ipv6-address PrefixLen	Use ipv6-address PrefixLen to get matched route entries.	<pre><RouteEntry base:filter="IPv6 1:: PrefixLen 64"> <RouteEntry base:filter="vrf vpn2 IPv6 1:: PrefixLen 64"></pre>
Ipv6-address PrefixLen Longer	Use ipv6-address PrefixLen to get the route entry with the	<pre><RouteEntry base:filter="IPv6 1:: PrefixLen 64 longer"> <RouteEntry base:filter="vrf vpn2 IPv6 1:: PrefixLen 64 longer"></pre>

	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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">• 0—Disabled.• 1—Enabled.	N/A

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Route/Ipv4RouteECMPNumbers	3
Route/Ipv6RouteECMPNumbers	3
Route/Ipv4BandwidthBasedSharing	3
Route/Ipv6BandwidthBasedSharing	3

Route

Route/Ipv4Routes

Message	Explanation
The input format is incorrect. 输入的格式不正确。	Invalid configuration, please modify configuration under the guidance.
The length of the prefix list name is incorrect. 前缀列表的名字长度不正确。	Invalid configuration, please modify configuration under the guidance.
Incorrect ACL number. ACL号不正确。	Invalid configuration, please modify configuration under the guidance.
Incorrect address. 地址不正确。	Invalid configuration, please modify configuration under the guidance.
VRF name doesn't exist. VRF名不存在。	Invalid configuration, please modify configuration under the guidance.
Incorrect prefix length. 前缀长度不正确。	Invalid configuration, please modify configuration under the guidance.
Incorrect mask length. 掩码长度不正确。	Invalid configuration, please modify configuration under the guidance.
Invalid character. 存在非法字符。	Invalid configuration, please modify configuration under the guidance.

Route/Ipv6Routes

Message	Explanation
The input format is incorrect. 输入的格式不正确。	Invalid configuration, please modify configuration under the guidance.
The length of the prefix list name is incorrect. 前缀列表的名字长度不正确。	Invalid configuration, please modify configuration under the guidance.
Incorrect ACL number. ACL号不正确。	Invalid configuration, please modify configuration under the guidance.
Incorrect address. 地址不正确。	Invalid configuration, please modify configuration under the guidance.
VRF name doesn't exist. VRF名不存在。	Invalid configuration, please modify configuration under the guidance.
Incorrect prefix length. 前缀长度不正确。	Invalid configuration, please modify configuration under the guidance.
Incorrect mask length.	Invalid configuration, please modify configuration under the guidance.

掩码长度不正确。	
Invalid character. 存在非法字符。	Invalid configuration, please modify configuration under the guidance.

Route/Ipv4RouteStatistics

Message	Explanation
NULL	NULL

Route/Ipv6RouteStatistics

Message	Explanation
NULL	NULL

Route/Ipv4RouteECMPNumbers

Message	Explanation
NULL	NULL

Route/Ipv6RouteECMPNumbers

Message	Explanation
NULL	NULL

Route/Ipv4BandwidthBasedSharing

Message	Explanation
NULL	NULL

Route/Ipv6BandwidthBasedSharing

Message	Explanation
NULL	NULL

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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
			<ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> Value range: 0 to 32. 	Ipv4PrefixLength <= MinPrefixLength <= MaxPrefixLength
MaxPrefixLength	Less than or equal to this value.	N/A	Unsigned integer. <ul style="list-style-type: none"> 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>
      <Description></Description>
      <Match>
        <IPv4AddressPrefixList></IPv4AddressPrefixList>
      </Match>
    </Entry>
  </Policy>
</RoutePolicy>

```



```

    <ExtcommunityList></ExtcommunityList>
  <Tag></Tag>
  <Interface></Interface>
  <L3vni></L3vni>
  <RouteType></RouteType>
  <TagList></TagList>
</Match>
<MatchCommunityList>
  <List></List>
  <WholeMatch></WholeMatch>
</MatchCommunityList>
<Apply>
  <ExtCommunityRtValue></ExtCommunityRtValue>
  <ExtCommunityRtType></ExtCommunityRtType>
  <VpnPeerId></VpnPeerId>
  <CostValue></CostValue>
  <CostMode></CostMode>
  <LocalPreference></LocalPreference>
  <L3vni></L3vni>
  <ASPath></ASPath>
  <ASPathType></ASPathType>
  <CommunityNumber></CommunityNumber>
  <CommunityAttr></CommunityAttr>
  <CommunityType></CommunityType>
  <Exp></Exp>
</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
Mode	Operation type of Route Policy.		Enumeration: <ul style="list-style-type: none"> 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.
Description	Description of route policy.		String, case-sensitive. Length: 1 to 80 characters.	N/A
Match	If match condition.	Data structure	Members include: <ul style="list-style-type: none"> AddressPrefixList. ExtcommunityList Tag Interface L3vni 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.
L3vni	Match the L3 VXLAN ID of BGP routes.		Unsigned integer. Value range:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			0 to 16777215	
RouteType	Match route type.		Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	Not supported when specifying an advanced community list number.
Apply	Apply action.	Data structure	Members include: <ul style="list-style-type: none"> ExtCommunityRtValue. ExtCommunityRtType. VpnPeerId CostValue. CostMode. LocalPreference. L3vni. ASPath. ASPathType. CommunityNumber. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> CommunityAttr. CommunityType. Exp. 	
ExtCommunityRtValue	The value of Ext Community Route Target (RT).		String. Length: 3 to 21 characters. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Update. 1—Increase. 2—Decrease. 	N/A
LocalPreference	BGP route local preference		Unsigned integer. Value range: 0 to 4294967295	N/A
L3vni	Specify an L3 VXLAN ID for BGP routes.		Unsigned integer. Value range: 0 to 16777215	N/A
ASPath	AS_PATH attribute value.		Unsigned integer. Value range: 1 to 4294967295	Repeat supported for 32 times.
ASPathType	AS_PATH attribute additive type.		Enumeration: <ul style="list-style-type: none"> 1—Additive. 2—Replace. 	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.
CommunityAttr	Community		Enumeration:	Repeat supported for

Column name	Column description	Column type	Data type and restrictions	Remarks
tr	attribute.		<ul style="list-style-type: none"> 1—Internet. 2—No-advertise. 3—no-export. 4—no-export-subconfed. 	32 times along with CommunityNumber.
CommunityType	Community additive type.		Enumeration: <ul style="list-style-type: none"> 0—Replace. 1—Additive. 2—None. 	N/A
Exp	Specify an MPLS EXP value		Unsigned integer. Value range: 0 to 7	N/A
ApplyIpv4NextHop	Specify next hop.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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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XML structure.....	9
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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

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: <ul style="list-style-type: none">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>
      <Description></Description>
      <Match>
        <IPv4AddressPrefixList></IPv4AddressPrefixList>
        <ExtcommunityList></ExtcommunityList>
        <Tag></Tag>
        <Interface></Interface>
        <L3vni></L3vni>
        <RouteType></RouteType>
        <TagList></TagList>
      </Match>
      <MatchCommunityList>
        <List></List>
        <WholeMatch></WholeMatch>
      </MatchCommunityList>
      <Apply>
        <ExtCommunityRtValue></ExtCommunityRtValue>
        <ExtCommunityRtType></ExtCommunityRtType>
        <VpnPeerId></VpnPeerId>
        <CostValue></CostValue>
        <CostMode></CostMode>
        <LocalPreference></LocalPreference>
        <L3vni></L3vni>
        <ASPath></ASPath>
        <ASPathType></ASPathType>
      </Apply>
    </Entry>
  </Policy>
</RoutePolicy>

```



```

    <CommunityNumber></CommunityNumber>
    <CommunityAttr></CommunityAttr>
    <CommunityType></CommunityType>
    <Exp></Exp>
  </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

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: <ul style="list-style-type: none"> 0—permit. 1—deny. 	N/A
Description	Description of route policy.		String, case-sensitive. Length: 1 to 80 characters.	N/A
Match	If match condition.	Data structure	Members include: <ul style="list-style-type: none"> AddressPrefixList. ExtcommunityList Tag Interface L3vni RouteType TagList 	N/A
IPv4Address	Match IPv4		String, case-sensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PrefixList	address using prefix list.		Length: 1 to 63 characters.	
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.
L3vni	Match the L3 VXLAN ID of BGP routes.		Unsigned integer. Value range: 0 to 16777215	N/A
RouteType	Match route type.		Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> List. WholeMatch 	Repeat supported for 32 times.
List	Match BGP routes whose community attribute matches a specified		Basic community list number: Unsigned integer. Value range:1 to 99.	List name cannot be all made up of numbers.

Column name	Column description	Column type	Data type and restrictions	Remarks
	community list.		Advanced community list number: Unsigned integer. Value range:100 to 199. Community list name: String, case-sensitive. Length: 1 to 63 characters.	
WholeMatch	Match all communities exactly.		Enumeration: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	Not supported when specifying an advanced community list number.
Apply	Apply action.	Data structure	Members include: <ul style="list-style-type: none"> ExtCommunityRtValue. ExtCommunityRtType. VpnPeerId CostValue. CostMode. LocalPreference. L3vni. ASPath. ASPathType. CommunityNumber. CommunityAttr. CommunityType. Exp. 	N/A
ExtCommunityRtValue	The value of Ext Community Route Target (RT).		String. Length: 3 to 21 characters. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Update. 1—Increase. 2—Decrease. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LocalPreference	BGP route local preference.		Unsigned integer. Value range: 0 to 4294967295	N/A
L3vni	Specify an L3 VXLAN ID for BGP routes.		Unsigned integer. Value range: 0 to 16777215	N/A
ASPath	AS_PATH attribute value.		Unsigned integer. Value range: 1 to 4294967295	Repeat supported for 32 times.
ASPathType	AS_PATH attribute additive type.		Enumeration: <ul style="list-style-type: none"> 1—Additive. 2—Replace. 	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.
CommunityAttr	Community attribute.		Enumeration: <ul style="list-style-type: none"> 1—Internet. 2—No-advertise. 3—no-export. 4—no-export-subconfed. 	Repeat supported for 32 times along with CommunityNumber.
CommunityType	Community additive type.		Enumeration: <ul style="list-style-type: none"> 0—Replace. 1—Additive. 2—None. 	N/A
Exp	Specify an MPLS EXP value		Unsigned integer. Value range: 0 to 7	N/A
ApplyIpv4NextHop	Specify next hop.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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	Example: 101:3 or 192.168.122.15:1 or 70000:3. Repeat supported for 32 times along with SoO configuration.

Column name	Column description	Column type	Data type and restrictions	Remarks
			295> or AS<65536-4294967295>:NN<0-65535>.	
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

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—permit. 1—deny. 	N/A
TagValue	Tag value		Unsigned integer. Value range: 0 to 4294967295.	Repeat supported for 32 times.

Contents

- RoutePolicy 2
 - RoutePolicy/IPv4Prefix2
 - RoutePolicy/Policy2

RoutePolicy

RoutePolicy/IPv4Prefix

Message	Explanation
Invalid MinPrefixLength value. Note: Prefix length <= MinPrefixLength <= MaxPrefixLength. 最小前缀长度的值非法 注意：前缀长度<= 最小前缀长度<= 最大前缀长度。	Invalid configuration, please modify configuration under the guidance.
Invalid MaxPrefixLength value. Note: Prefix length <= MinPrefixLength <= MaxPrefixLength. 最大前缀长度的值非法 注意：前缀长度<= 最小前缀长度<= 最大前缀长度。	Invalid configuration, please modify configuration under the guidance.
Invalid combination of mask length, MaxPrefixLength value and MinPrefixLength value. Note: Prefix length <= MinPrefixLength <= MaxPrefixLength. 前缀长度、最小前缀长度和最大前缀长度之间的大小关系非法 注意：前缀长度<= 最小前缀长度<= 最大前缀长度。	Invalid configuration, please modify configuration under the guidance.
Invalid MaxPrefixLength value or MinPrefixLength value. Note: Prefix length <= MinPrefixLength <= MaxPrefixLength. 最小前缀长度或最大前缀长度之间的值非法 注意：前缀长度<= 最小前缀长度<= 最大前缀长度。	Invalid configuration, please modify configuration under the guidance.

RoutePolicy/Policy

Message	Explanation
ExtCommunityRtValue and ExtCommunityRtType must be configured together. 扩展团体属性值和类型必须同时配置。	Invalid configuration, please modify configuration under the guidance.
Invalid or unusable interfaces. 无效的或不可下刷的接口索引。	Invalid configuration, please modify configuration under the guidance.
Configuration number has exceeded the limit. 配置数目超限。	Invalid configuration, please modify configuration under the guidance.
Existed configuration. 已有相同配置，此配置不能下刷。	Same configuration has existed when creating a new configuration.
Vpnpeer is not customized on this device. 设备没有定制vpnpeer特性。	Configuration is not supported.

Same value of List is not supported in current repeat-group. 当前可重复组中不支持配置相同的团体属性。	Invalid configuration, please modify configuration under the guidance.
The CostValue and CostMode column must be configured at the same time. 必须同时配置路由开销值和模式。	Invalid configuration, please modify configuration under the guidance.
The ASPath and ASPathType column must be configured together. AS路径访问列表和类型必须同时配置。	Invalid configuration, please modify configuration under the guidance.

RoutePolicy/ExtcommunityList

Message	Explanation
Existed configuration. 已有相同配置，此配置不能下刷。	Same configuration has existed when creating a new configuration.

RoutePolicy/CommunityList

Message	Explanation
Configuration number has exceeded the limit. 配置数目超限。	Invalid configuration, please modify configuration under the guidance.
Existed configuration. 已有相同配置，此配置不能下刷。	Same configuration has existed when creating a new configuration.
Configuration is not supported in current community-list level. 当前团体属性列表级别下不支持此配置。	Invalid configuration, check community-list level.
Invalid index of community-list. 团体属性列表索引列配置错误。	Invalid configuration, please modify configuration under the guidance.
Wrong format in current operation mode. 带非索引列删除时，必须同时下刷匹配模式及对应配置。	Invalid configuration, please modify configuration under the guidance.

RoutePolicy/TagList

Message	Explanation
Existed configuration. 已有相同配置，此配置不能下刷。	Same configuration has existed when creating a new configuration.

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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
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/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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">0—Disable auto channel selection.	Optional

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">0—Disable scan only1—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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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>
      <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	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
Mode	Enable/Disable WSA collaboration of radio	N/A	Enumeration: <ul style="list-style-type: none"> 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>

```


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
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
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/CibGroupCfg

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
ChlHoldownTime	Channel holddown time	N/A	Unsigned integer. Value range: 10 to 1440 Default value: 720.	N/A
PwrHoldownTime	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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
RadiolD	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">truefalse	N/A
SupportRandomMode	Whether the RandomMode is enabled.	N/A	Boolean: <ul style="list-style-type: none">truefalse	N/A
MaxPacketInterval	Max Sampler Rate	N/A	Unsigned integer.	The value of MaxPacketInterval depends on the device model.

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SecDiag

SecDiag/ExportLogfile

This table is used to export log files of contexts.

XML structure

```
<SecDiag>
  <ExportLogfile>
    <ContextList>
      <ContextID></ContextID>
    </ContextList>
    <FileName></FileName>
    <IsOverwrite></IsOverwrite>
  </ExportLogfile>
</SecDiag>
```

Response XML structure

```
<SecDiag>
  <ExportLogfile>
    <Result></Result>
    <ErrorInfo></ErrorInfo>
  </ExportLogfile>
</SecDiag>
```

Table description

Item	Description
Feature name	SecDiag
Table name	ExportLogfile
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextList	List of contexts selected on the Web.	Data structure	Members include: <ul style="list-style-type: none">ContextID	If no context is selected, information about all contexts is exported.

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextID	ID of the context.	N/A	Unsigned integer. Value range: 1 to 65535	N/A
FileName	Name for the export file.	N/A	String. Length: 1 to 255 characters. Format: logfile <i>date</i> .tar.gz Date format: YYYYMMDDhhmmss	Example: logfile20170424000000.tar.gz. The filename cannot be ..tar.gz or ...tar.gz , or contain any of the following characters: " / : \ ? \ \ < > *
IsOverwrite	Whether to overwrite the file if it already exists.	N/A	Boolean: <ul style="list-style-type: none"> true—Overwrites the file. false—Does not overwrite the file. 	By default, the value of this column is false .

Response columns

Column name	Column description	Data type and restrictions	Remarks
Result	Export result.	Enumeration: <ul style="list-style-type: none"> 0—Succeeded. 1—File already exists. 	N/A
ErrorInfo	Description for the export result.	String. Length: 1 to 255 characters.	This column carries the description for the enumeration value that represents the export result.

SecDiag/ExportConfiguration

This table is used to export configuration files of contexts.

XML structure

```

<SecDiag>
  <ExportConfiguration>
    <ContextList>
      <ContextID></ContextID>
    </ContextList>
    <FileName></FileName>
    <IsOverwrite></IsOverwrite>
  </ExportConfiguration>
</SecDiag>

```


Response XML structure

```
<SecDiag>
  <ExportConfiguration>
    <Result></Result>
    <ErrorInfo></ErrorInfo>
  </ExportConfiguration>
</SecDiag>
```

Table description

Item	Description
Feature name	SecDiag
Table name	ExportConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextList	List of contexts selected on the Web.	Data structure	Members include: <ul style="list-style-type: none">ContextID	If no context is selected, information about all contexts is exported.
ContextID	ID of the context.	N/A	Unsigned integer. Value range: 1 to 65535	N/A
FileName	Name for the export file.	N/A	String. Length: 1 to 255 characters. Format: configdate.tar.gz Date format: YYYYMMDDhhmmss	Example: config20170424000000.tar.gz. The filename cannot be ..tar.gz or ...tar.gz , or contain any of the following characters: " / : \ ? \ \ < > *
IsOverwrite	Whether to overwrite the file if it already exists.	N/A	Boolean: <ul style="list-style-type: none">true—Overwrites the file.false—Does not overwrite the file.	By default, the value of this column is false .

Response columns

Column name	Column description	Data type and restrictions	Remarks
Result	Export result.	Enumeration:	N/A

Column name	Column description	Data type and restrictions	Remarks
		<ul style="list-style-type: none"> 0—Succeeded. 1—File already exists. 	
ErrorInfo	Description for the export result.	String. Length: 1 to 255 characters.	This column carries the description for the enumeration value that represents the export result.

SecDiag/ExportDiagnosis

This table is used to export diagnosis files of contexts.

XML structure

```
<SecDiag>
  <ExportDiagnosis>
    <ContextList>
      <ContextID></ContextID>
    </ContextList>
    <FileName></FileName>
    <IsOverwrite></IsOverwrite>
  </ExportDiagnosis>
</SecDiag>
```

Response XML structure

```
<SecDiag>
  <ExportDiagnosis>
    <Result></Result>
    <ErrorInfo></ErrorInfo>
  </ExportDiagnosis>
</SecDiag>
```

Table description

Item	Description
Feature name	SecDiag
Table name	ExportDiagnosis
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ContextList	List of contexts selected on the Web.	Data structure	Members include: <ul style="list-style-type: none"> ContextID 	If no context is selected, information about all contexts is exported.
ContextID	ID of the context.	N/A	Unsigned integer. Value range: 1 to 65535	N/A
FileName	Name for the export file.	N/A	String. Length: 1 to 255 characters. Format: diagdate.tar.gz Date format: YYYYMMDDhhmmss	Example: diag20170424000000.tar.gz. The filename cannot be ..tar.gz or ...tar.gz , or contain any of the following characters: " / : \ ? \ \ < > *
IsOverwrite	Whether to overwrite the file if it already exists.	N/A	Boolean: <ul style="list-style-type: none"> true—Overwrites the file. false—Does not overwrite the file. 	By default, the value of this column is false .

Response columns

Column name	Column description	Data type and restrictions	Remarks
Result	Export result.	Enumeration: <ul style="list-style-type: none"> 0—Succeeded. 1—File already exists. 	N/A
ErrorInfo	Description for the export result.	String. Length: 1 to 255 characters.	This column carries the description for the enumeration value that represents the export result.

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SecDiag

SecDiag/BandwidthGlobal

This table contains bandwidthalert global configuration information.

XML structure

```
<SecDiag>
  <BandwidthGlobal>
    <BandwidthLimit></BandwidthLimit>
    <TimeInterval></TimeInterval>
    <Logging></Logging>
  </BandwidthGlobal>
</SecDiag>
```

Table description

Item	Description
Feature name	SecDiag
Table name	BandwidthGlobal
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
BandwidthLimit	Threshold of the inbound flow around the whole device.	N/A	Unsigned integer. Value range: 0 to 4294967295 in Mbps. Default: 0.	N/A
TimeInterval	The interval time to check the inbound flow forward.	N/A	Unsigned integer. Value range: 5 to 300 in seconds. Default: 300.	The interval value should be multiple of five.
Logging	Switch of the threshold logging.	N/A	Boolean: <ul style="list-style-type: none">true—Enable.false—Disable(default).	N/A

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SecDiag

SecDiag/BandwidthGlobal

This table contains bandwidthalert global information.

XML structure

```
<SecDiag>
  <BandwidthGlobal>
    <BandwidthLimit></BandwidthLimit>
    <TimeInterval></TimeInterval>
    <Logging></Logging>
  </BandwidthGlobal>
</SecDiag>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
BandwidthLimit	Threshold of the inbound flow around the whole device.	N/A	Unsigned integer. Value range: 0 to 4294967295 in Mbps.	N/A
TimeInterval	The interval time to check the inbound flow forward.	N/A	Unsigned integer. Value range: 5 to 300 in seconds.	The interval value should be multiple of five.
Logging	Switch of the threshold logging..	N/A	Boolean: <ul style="list-style-type: none">true—Enable.false—Disable.	N/A

SecDiag/ExportRatio

This table is used to obtain the export progress.

XML structure

```
<SecDiag>
  <ExportRatio>
    <Ratio></Ratio>
    <ExportType></ExportType>
  </ExportRatio>
</SecDiag>
```

Table description

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

Columns

Column name	Column description	Data type and restrictions	Remarks
Ratio	Export progress.	Unsigned integer. Value range: 0 to100.	Exporting : 0 to 100
ExportType	Type of data is being exported.	Enumeration: <ul style="list-style-type: none">• 0—No data is being exported.• 1—Log file.• 2—Diagnosis information.• 3—Configuration information.	Only one type is supported at a time.

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XML structure	10
Table description	10
Columns	10

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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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/RedundancyRulesCheck

This table contains information about checking redundant security policy rules.

XML structure

```
<SecurityPolicies>
  <RedundancyRulesCheck>
    <Action></Action>
  </RedundancyRulesCheck>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	RedundancyRulesCheck
Table type	Single-instance table

Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Action	Action of checking redundant rules.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Start. 2—Stop. 	N/A

SecurityPolicies/SingleOptimized

This table contains the optimization operation for single risky security policy rule.

XML structure

```

<SecurityPolicies>
  <SingleOptimized>
    <PolicyType></PolicyType>
    <RuleID></RuleID>
    <RuleName></RuleName>
    <Profile></Profile>
    <ParentID></ParentID>
    <ParentName></ParentName>
    <IsAppTicked></IsAppTicked>
  </SingleOptimized>
</SecurityPolicies>

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PolicyType	Rule type.	Index	Enumeration: <ul style="list-style-type: none">1—IPv4.2—IPv6.	Required.
RuleID	Rule ID.	Index	Unassigned integer. Value range: 0 to 65534.	Required.
RuleName	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	Required.
Profile	Profile name.	N/A	String. Length: 1 to 63 characters.	Required.
ParentID	Parent rule ID.	N/A	Unassigned integer. Value range: 0 to 65534.	Required.
ParentName	Parent rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.	Required.
IsAppTicked	Whether the application being ticked.	N/A	Boolean: <ul style="list-style-type: none">true—Enable.false—Disable.	Required.

SecurityPolicies/BatchOptimized

This table contains the optimization operation for some risky security policy rules.

XML structure

```
<SecurityPolicies>
  <BatchOptimized>
    <OptimizeType></OptimizeType>
    <Commit></Commit>
  </BatchOptimized>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	BatchOptimized
Table type	Single-instance table
Row name	N/A

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OptimizeType	The time range of optimization.	Index	Enumeration: <ul style="list-style-type: none"> 0—Today. 1—Last Three Days. 2—Last Week. 3—Last Month. 	Required
Commit	Commit batch optimization operation.	N/A	This column must be empty.	Required.

SecurityPolicies/MoveIPv4RuleGroup

This table contains information about moving a rule group within an IPv4 security policy.

XML structure

```

<SecurityPolicies>
  <MoveIPv4RuleGroup>
    <RuleGroup>
      <RuleGroupName></RuleGroupName>
      <Direction></Direction>
      <DestinationType></DestinationType>
      <DestinationName></DestinationName>
    </RuleGroup>
  </MoveIPv4RuleGroup>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	MoveIPv4RuleGroup
Table type	Multi-instance table
Row name	RuleGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleGroupName	Rule group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Direction	Moving direction	Index	Enumeration: <ul style="list-style-type: none"> 1—Before. 2—After. 	N/A
DestinationType	Type of destination	Index	Enumeration: <ul style="list-style-type: none"> 1—Rule group. 2—Rule. 	N/A
DestinationName	Target rule group name or rule name	Index	String, case-insensitive. Length: 1 to 127 characters.	N/A

SecurityPolicies/MoveIPv6RuleGroup

This table contains information about moving a rule group within an IPv6 security policy.

XML structure

```

<SecurityPolicies>
  <MoveIPv6RuleGroup>
    <RuleGroup>
      <RuleGroupName></RuleGroupName>
      <Direction></Direction>
      <DestinationType></DestinationType>
      <DestinationName></DestinationName>
    </RuleGroup>
  </MoveIPv6RuleGroup>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	MoveIPv6RuleGroup
Table type	Multi-instance table
Row name	RuleGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleGroupName	Rule group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Direction	Moving direction	Index	Enumeration: <ul style="list-style-type: none"> 1—Before. 2—After. 	N/A
DestinationType	Type of destination	Index	Enumeration: <ul style="list-style-type: none"> 1—Rule group. 2—Rule. 	N/A
DestinationName	Target rule group name or rule name	Index	String, case-insensitive. Length: 1 to 127 characters.	N/A

SecurityPolicies/RenameIPv4RuleGrp

This table contains information about renaming a rule group within an IPv4 security policy.

XML structure

```

<SecurityPolicies>
  <RenameIPv4RuleGrp>
    <RuleGroup>
      <RuleGroupName></RuleGroupName>
      <NewRuleGroupName></NewRuleGroupName>
    </RuleGroup>
  </RenameIPv4RuleGrp>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	RenameIPv4RuleGrp
Table type	Multi-instance table
Row name	RuleGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleGroupName	Rule group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
NewRuleGroupName	New rule group name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A

SecurityPolicies/RenameIPv6RuleGrp

This table contains information about renaming a rule group within an IPv6 security policy.

XML structure

```
<SecurityPolicies>
  <RenameIPv6RuleGrp>
    <RuleGroup>
      <RuleGroupName></RuleGroupName>
      <NewRuleGroupName></NewRuleGroupName>
    </RuleGroup>
  </RenameIPv6RuleGrp>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	RenameIPv6RuleGrp
Table type	Multi-instance table
Row name	RuleGroup
Restrictions	None

Columns

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

NewRuleGroup Name	New rule group name	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
----------------------	------------------------	-------	----------------------------------------------------------	-----

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SecurityPolicies/IPv6SrcSecZone	6
XML structure	6
Table description	6
Columns	7
SecurityPolicies/IPv4DestSecZone	7
XML structure	7
Table description	7
Columns	8
SecurityPolicies/IPv6DestSecZone	8
XML structure	8
Table description	9
Columns	9
SecurityPolicies/IPv4SrcAddr	9
XML structure	9
Table description	10
Columns	10
SecurityPolicies/IPv6SrcAddr	11
XML structure	11
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SecurityPolicies/IPv4DestAddr	12
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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>
    <RuleGroupName></RuleGroupName>    </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enable (default). false—Disable. 	Optional.
Log	Whether to enable logging.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable (default). 	Optional.
Counting	Whether to enable counting.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	
RuleGroupName	Rule group name	N/A	String, case-insensitive. Length: 1 to 63 characters.	Optional.

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>
      <RuleGroupName></RuleGroupName>
    </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. 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enable (default). false—Disable. 	Optional.
Log.	Whether to enable logging	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable (default). 	Optional.
Counting.	Whether to enable counting	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enable. false—Disable (default). 	Optional.
SessPersistAgingTime.	Persistent session aging time period.	N/A	Unsigned integer. Value range: 0 to 24000	Optional.

			hours. 0 indicates that the timer never ages out.	
RuleGroupName	Rule group name	N/A	String, case-insensitive. Length: 1 to 63 characters.	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	Index	Unassigned integer.	This column is insignificant.

	number		Value range: 1 to 16.	Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No (default). 	N/A
NameList	Name of the source security zone list	Data structure	Members include: <ul style="list-style-type: none"> 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/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: <ul style="list-style-type: none"> true—Yes. false—No (default). 	N/A
NameList	Name of the source security zone list	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Yes. false—No (default). 	N/A
NameList	Name of the destination security zone list	Data structure	Members include: <ul style="list-style-type: none"> 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>

```



```

    </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: <ul style="list-style-type: none"> true—Yes. false—No (default). 	N/A
NameList	Name of the destination security zone list	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Yes. false—No (default). 	N/A
NameList	Name of the source IPv4 address list	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">true—Yes.false—No (default).	N/A

NameList	Name of the source IPv6 address list	Data structure	Members include: <ul style="list-style-type: none"> 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.	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: <ul style="list-style-type: none"> true—Yes. false—No (default). 	N/A
NameList	Name of the destination IPv4 address list	Data structure	Members include: <ul style="list-style-type: none"> 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. 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: <ul style="list-style-type: none"> true—Yes. false—No (default). 	N/A
NameList	Name of the destination IPv6 address list	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">true—Yes.false—No (default).	N/A
NameList	Name of the source IPv4 MAC address list	Data structure	Members include: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> true—Yes. false—No (default). 	N/A
NameList	Name of the service object group list	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">true—Yes.false—No (default).	N/A

NameList	Name of the service object group list	Data structure	Members include: <ul style="list-style-type: none"> NamelItem 	N/A
NamelItem	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.	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: <ul style="list-style-type: none"> true—Yes. false—No (default). 	N/A
NameList	Name of the application list	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Yes. false—No (default). 	N/A
NameList	Name of the application list	Data structure	Members include: <ul style="list-style-type: none"> 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. 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: <ul style="list-style-type: none"> true—Yes. false—No (default). 	N/A
NameList	Name of the application group list	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">true—Yes.false—No (default).	N/A
NameList	Name of the application group list	Data structure	Members include: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> true—Yes. false—No (default). 	N/A
NameList	Name of the user list	Data structure	Members include: <ul style="list-style-type: none"> 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 , default , 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	Index	Unassigned integer.	This column is insignificant.

	number		Value range: 1 to 1024.	Ignore the value in this column.
IsIncrement	Whether to increment the data	N/A	Boolean: <ul style="list-style-type: none"> true—Yes. false—No (default). 	N/A
NameList	Name of the user list	Data structure	Members include: <ul style="list-style-type: none"> 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 , defaul , 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: <ul style="list-style-type: none"> true—Yes. false—No (default). 	N/A
NameList	Name of the user group list	Data structure	Members include: <ul style="list-style-type: none"> 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 , 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: <ul style="list-style-type: none">true—Yes.false—No (default).	N/A
NameList	Name of the user group list	Data structure	Members include: <ul style="list-style-type: none">NameItem	N/A
NameItem	Name of the user group	N/A	String, case-insensitive. Group name length: 1 to 32	Form: user-group-name, user-group-name@domain-n

	security policy.			
--	------------------	--	--	--

SecurityPolicies/RulesCounting

This table contains rules counting information for security policies.

XML structure

```
<SecurityPolicies>
  <RulesCounting>
    <Enable></Enable>
  </RulesCounting>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	RulesCounting
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 counting for the security policy.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable (default). 	Optional.

SecurityPolicies/IPv4RuleGroup

This table contains information about an IPv4 security policy rule group.

XML structure

```
<SecurityPolicies>
  <IPv4RuleGroup>
    <RuleGroup>
      <RuleGroupName></RuleGroupName>
    </RuleGroup>
  </IPv4RuleGroup>
</SecurityPolicies>
```



```

<Description></Description>
<FromRuleName></FromRuleName>
<ToRuleName></ToRuleName><Enable></Enable>
<IncludeMember></IncludeMember>
</RuleGroup>
</IPv4RuleGroup>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4RuleGroup
Table type	Multi-instance table
Row name	RuleGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleGroupName	Rule group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description.	Description	N/A	String. Length: 1 to 127 characters.	Optional.
FromRuleName	The begin rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.	Optional.
ToRuleName	The end rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.	Optional.
IncludeMember	Delete all the rules under the rule group.	N/A	This column is used when a rule group is deleted. If this column is specified, the rules under the rule group will also be deleted.	Optional.
Enable	Enable the rule group.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable. 	Optional.

SecurityPolicies/IPv6RuleGroup

This table contains information about an IPv6 security policy rule group.

XML structure

```
<SecurityPolicies>
  <IPv6RuleGroup>
    <RuleGroup>
      <RuleGroupName></RuleGroupName>
      <Description></Description>
      <FromRuleName></FromRuleName>
      <ToRuleName></ToRuleName>
      <Enable></Enable>
      <IncludeMember></IncludeMember>
    </RuleGroup>
  </IPv6RuleGroup>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6RuleGroup
Table type	Multi-instance table
Row name	RuleGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
RuleGroupName	Rule group name.	Index	String, case-insensitive. Length: 1 to 63 characters.	N/A
Description.	Description	N/A	String. Length: 1 to 127 characters.	Optional
FromRuleName	The begin rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.	Optional
ToRuleName	The end rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.	Optional
IncludeMember	Delete all the rules under the rule group.	N/A	This column is used when a rule group is deleted. If this column is specified, the rules under the rule group will also be deleted.	Optional.
Enable	Enable the	N/A	Boolean: <ul style="list-style-type: none">true—Enable.	Optional

	rule group.		<ul style="list-style-type: none">• false—Disable.	
--	-------------	--	------------------------------------------------------------------	--

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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>
      <RuleGroupName></RuleGroupName>
    </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Effective. false—Not effective.
Enable	Whether to enable the rule.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
Log	Whether to enable logging.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
Counting	Whether to enable counting.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.
RuleGroupName	Rule group name	N/A	String, case-insensitive. Length: 1 to 63 characters.

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>
      <RuleGroupName></RuleGroupName>
    </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Effective. false—Not effective.
Enable.	Whether to enable the rule	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
Log.	Whether to enable logging	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
Counting.	Whether to enable counting	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.
RuleGroupName	Rule group name	N/A	String, case-insensitive. Length: 1 to 63 characters.

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>
  <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>
  <RuleGroupName></RuleGroupName>
</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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enable. false—Disable.
Log	Whether logging is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
Counting	Whether counting is enabled.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.
RuleGroupName	Rule group name	N/A	String, case-insensitive.

e			Length: 1 to 63 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>
    </Rule>
  </QueryRules>
</SecurityPolicies>

```



```

    <Profile></Profile>
    <Enable></Enable>
    <Log></Log>
    <Counting></Counting>
    <Count></Count>
    <Byte></Byte>
    <SessAgingTimeSw></SessAgingTimeSw>
    <SessAgingTime></SessAgingTime>
    <SessPersistAgingTimeSw></SessPersistAgingTimeSw>
    <SessPersistAgingTime></SessPersistAgingTime>
    <AllRulesCount></AllRulesCount>
    <Comment></Comment>
    <RuleGroupName></RuleGroupName>
  </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Deny. 2—Permit.
SrcZoneList	Name of the source zone list	Data structure	Members include: <ul style="list-style-type: none"> SrcZoneItem
SrcZoneItem	Name of the source	N/A	String, case-insensitive.

	zone		Length: 1 to 31 characters.
DestZoneList	Name of the destination zone list	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • true—Enable. • false—Disable.
Log	Whether logging is enabled.	N/A	Boolean: <ul style="list-style-type: none"> • true—Enable. • false—Disable.
Counting	Whether counting is enabled.	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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.
RuleGroupName	Rule group name	N/A	String, case-insensitive. Length: 1 to 63 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: <ul style="list-style-type: none">• NameItem
NameItem	Name of the source	N/A	String, case-insensitive.

	security zone		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	Data structure	Members include:

	security zone list		<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 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>
```



```

    </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: <ul style="list-style-type: none"> Nameltem
Nameltem	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>
    </SrcMacAddr>
  </IPv4SrcMacAddr>
</SecurityPolicies>

```



```

    <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: <ul style="list-style-type: none"> • 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>
```

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: <ul style="list-style-type: none">• NameItem
NameItem	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: <ul style="list-style-type: none">• 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>
      <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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>
```



```

    </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: <ul style="list-style-type: none"> Nameltem
Nameltem	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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 application list	Data structure	Members include: <ul style="list-style-type: none">ApplItem
ApplItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.

SecurityPolicies/RedundancyCheckStatus

This table contains status information for checking the redundant security policy rules.

XML structure

```
<SecurityPolicies>
  <RedundancyCheckStatus>
    <Status></Status>
    <Proportion></Proportion>
  </RedundancyCheckStatus>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	RedundancyCheckStatus
Table type	Single-instance table
Row name	Status

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

Columns

Column name	Column description	Column type	Data type and restrictions
Status	The status for checking redundancy security policy rules	N/A	Enumeration: <ul style="list-style-type: none"> 0—init. 1—finished. 2—checking.
Proportion	Percentage of progress	N/A	Unassigned integer. Value range: 0 to 100.

SecurityPolicies/ContainRedundancyRules

This table shows security policy rules that have redundant rules.

XML structure

```

<SecurityPolicies>
  <ContainRedundancyRules>
    <Rule>
      <Type></Type>
      <RuleID></RuleID>
      <RuleName></RuleName>
      <Action></Action>
      <SrcZoneList>
        <SrcZoneItem></SrcZoneItem>
        <SrcZoneStatus></SrcZoneStatus>
      </SrcZoneList>
      <DestZoneList>
        <DestZoneItem></DestZoneItem>
        <DestZoneStatus></DestZoneStatus>
      </DestZoneList>
      <SrcMacAddrList>
        <SrcMacAddrItem></SrcMacAddrItem>
        <SrcMacAddrStatus></SrcMacAddrStatus>
      </SrcMacAddrList>
      <SrcAddrList>
        <SrcAddrItem></SrcAddrItem>
        <SrcAddrStatus></SrcAddrStatus>
      </SrcAddrList>
      <DestAddrList>
        <DestAddrItem></DestAddrItem>
        <DestAddrStatus></DestAddrStatus>
      </DestAddrList>
    </Rule>
  </ContainRedundancyRules>
</SecurityPolicies>

```



```

<ServGrpList>
  <ServGrpItem></ServGrpItem>
  <ServGrpStatus></ServGrpStatus>
</ServGrpList>
<AppList>
  <AppItem></AppItem>
  <AppStatus></AppStatus>
</AppList>
<AppGrpList>
  <AppGrpItem></AppGrpItem>
  <AppGrpStatus></AppGrpStatus>
</AppGrpList>
<UserList>
  <UserItem></UserItem>
  <UserStatus></UserStatus>
</UserList>
<UserGrpList>
  <UserGrpItem></UserGrpItem>
  <UserGrpStatus></UserGrpStatus>
</UserGrpList>
<TimeRange></TimeRange>
<VRF></VRF>
<Enable></Enable>
<Comment></Comment>
<Profile></Profile>
</Rule>
</ContainRedundancyRules>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	ContainRedundancyRules
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: <ul style="list-style-type: none"> 1—IPv4. 2—IPv6.

RuleID	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: <ul style="list-style-type: none"> 1—Deny. 2—Permit.
SrcZoneList	Name of the source zone list	Data structure	Members include: <ul style="list-style-type: none"> SrcZoneItem. SrcZoneStatus.
SrcZoneItem	Name of the source zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcZoneStatus	Status of the source zone	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.
DestZoneList	Name of the destination zone list	Data structure	Members include: <ul style="list-style-type: none"> DestZoneItem. DestZoneStatus.
DestZoneItem	Name of the destination zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestZoneStatus	Status of the destination zone	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.
SrcMacAddrList	Name of the source IPv4 MAC address list	Data structure	Members include: <ul style="list-style-type: none"> SrcMacAddrItem. SrcMacAddrStatus.
SrcMacAddrItem	Name of the source MAC address	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcMacAddrStatus	Status of the source MAC address	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.
SrcAddrList	Name of the source address list	Data structure	Members include: <ul style="list-style-type: none"> SrcAddrItem. SrcAddrStatus.
SrcAddrItem	Name of the source address	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcAddrStatus	Status of the source address	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.
DestAddrList	Name of the destination address list	Data structure	Members include: <ul style="list-style-type: none"> DestAddrItem. DestAddrStatus.
DestAddrItem	Name of the destination address	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestAddrStatus	Status of the	N/A	Boolean:

	destination address		<ul style="list-style-type: none"> • true—Effective. • false—Not effective.
ServGrpList	Name of the service group list	Data structure	Members include: <ul style="list-style-type: none"> • ServGrpItem. • ServGrpStatus.
ServGrpItem	Name of the service group	N/A	String, case-insensitive. Length: 1 to 31 characters.
ServGrpStatus	Status of the service group	N/A	Boolean: <ul style="list-style-type: none"> • true—Effective. • false—Not effective.
AppList	Name of the application list	Data structure	Members include: <ul style="list-style-type: none"> • AppItem. • AppStatus
AppItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.
AppStatus	Status of the application	N/A	Boolean: <ul style="list-style-type: none"> • true—Effective. • false—Not effective.
AppGrpList	Name of the application group list	Data structure	Members include: <ul style="list-style-type: none"> • AppGrpItem. • AppGrpStatus
AppGrpItem	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.
AppGrpStatus	Status of the application group	N/A	Boolean: <ul style="list-style-type: none"> • true—Effective. • false—Not effective.
UserList	Name of the user list	Data structure	Members include: <ul style="list-style-type: none"> • UserItem. • UserStatus
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.
UserStatus	Status of the user	N/A	Boolean: <ul style="list-style-type: none"> • true—Effective. • false—Not effective.
UserGrpList	Name of the user group list	Data structure	Members include: <ul style="list-style-type: none"> • UserGrpItem. • UserGrpStatus
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 (@).
UserGrpStatus	Status of the user group	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.
TimeRange	Name of the time range	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.
VRF	VRF name	N/A	String, case-insensitive. Length: 1 to 31 characters.
Enable	Whether to enable the rule	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
Comment	Description	N/A	String. Length: 1 to 127 characters.
Profile	Profile name	N/A	String. Length: 1 to 63 characters.

SecurityPolicies/ConfirmedRedundancyRules

This table shows redundant security policy rules.

XML structure

```

<SecurityPolicies>
  <ConfirmedRedundancyRules>
    <Rule>
      <Type></Type>
      <RuleID></RuleID>
      <RuleName></RuleName>
      <ContainRedundancyRuleID></ContainRedundancyRuleID>
      <Action></Action>
      <SrcZoneList>
        <SrcZoneItem></SrcZoneItem>
        <SrcZoneStatus></SrcZoneStatus>
      </SrcZoneList>
      <DestZoneList>
        <DestZoneItem></DestZoneItem>
        <DestZoneStatus></DestZoneStatus>
      </DestZoneList>
      <SrcMacAddrList>
        <SrcMacAddrItem></SrcMacAddrItem>
        <SrcMacAddrStatus></SrcMacAddrStatus>
      </SrcMacAddrList>
      <SrcAddrList>
        <SrcAddrItem></SrcAddrItem>

```



```

        <SrcAddrStatus></SrcAddrStatus>
    </SrcAddrList>
    <DestAddrList>
        <DestAddrItem></DestAddrItem>
        <DestAddrStatus></DestAddrStatus>
    </DestAddrList>
    <ServGrpList>
        <ServGrpItem></ServGrpItem>
        <ServGrpStatus></ServGrpStatus>
    </ServGrpList>
    <AppList>
        <AppItem></AppItem>
        <AppStatus></AppStatus>
    </AppList>
    <AppGrpList>
        <AppGrpItem></AppGrpItem>
        <AppGrpStatus></AppGrpStatus>
    </AppGrpList>
    <UserList>
        <UserItem></UserItem>
        <UserStatus></UserStatus>
    </UserList>
    <UserGrpList>
        <UserGrpItem></UserGrpItem>
        <UserGrpStatus></UserGrpStatus>
    </UserGrpList>
    <TimeRange></TimeRange>
    <VRF></VRF>
    <Enable></Enable>
    <Comment></Comment>
    <Profile></Profile>
</Rule>
</ConfirmedRedundancyRules>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	ConfirmedRedundancyRules
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: <ul style="list-style-type: none"> 1—IPv4. 2—IPv6.
RuleID	Rule ID	Index	Unassigned integer. Value range: 0 to 65534.
RuleName	Rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.
ContainRedundancyRuleID	ID of the rule that contains this redundant rule	N/A	Unassigned integer. Value range: 0 to 65534.
Action.	Action for the rule	N/A	Enumeration: <ul style="list-style-type: none"> 1—Deny. 2—Permit.
SrcZoneList	Name of the source zone list	Data structure	Members include: <ul style="list-style-type: none"> SrcZoneItem. SrcZoneStatus.
SrcZoneItem	Name of the source zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcZoneStatus	Status of the source zone	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.
DestZoneList	Name of the destination zone list	Data structure	Members include: <ul style="list-style-type: none"> DestZoneItem. DestZoneStatus.
DestZoneItem	Name of the destination zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestZoneStatus	Status of the destination zone	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.
SrcMacAddrList	Name of the source IPv4 MAC address list	Data structure	Members include: <ul style="list-style-type: none"> SrcMacAddrItem. SrcMacAddrStatus.
SrcMacAddrItem	Name of the source MAC address	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcMacAddrStatus	Status of the source MAC address	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.
SrcAddrList	Name of the source address list	Data structure	Members include: <ul style="list-style-type: none"> SrcAddrItem. SrcAddrStatus.

SrcAddrItem	Name of the source address	N/A	String, case-insensitive. Length: 1 to 31 characters.
SrcAddrStatus	Status of the source address	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.
DestAddrList	Name of the destination address list.	Data structure	Members include: <ul style="list-style-type: none"> DestAddrItem. DestAddrStatus.
DestAddrItem	Name of the destination address	N/A	String, case-insensitive. Length: 1 to 31 characters.
DestAddrStatus	Status of the destination address	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.
ServGrpList	Name of the service group list	Data structure	Members include: <ul style="list-style-type: none"> ServGrpItem. ServGrpStatus.
ServGrpItem	Name of the service group	N/A	String, case-insensitive. Length: 1 to 31 characters.
ServGrpStatus	Status of the service group	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.
AppList	Name of the application list	Data structure	Members include: <ul style="list-style-type: none"> AppItem. AppStatus
AppItem	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.
AppStatus	Status of the application	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.
AppGrpList	Name of the application group list	Data structure	Members include: <ul style="list-style-type: none"> AppGrpItem. AppGrpStatus
AppGrpItem	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.
AppGrpStatus	Status of the application group.	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.
UserList	Name of the user list	Data structure	Members include: <ul style="list-style-type: none"> UserItem. UserStatus
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.

UserStatus	Status of the user.	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.
UserGrpList	Name of the user group list	Data structure	Members include: <ul style="list-style-type: none"> UserGrpItem. UserGrpStatus
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 (@).
UserGrpStatus	Status of the user group.	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.
TimeRange	Name of the time range.	N/A	String, case-insensitive. Length: 1 to 32 characters. The string must start with an English letter.
VRF	VRF name.	N/A	String, case-insensitive. Length: 1 to 31 characters.
Enable	Whether to enable the rule.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
Comment	Description.	N/A	String. Length: 1 to 127 characters.
Profile	Profile name	N/A	String. Length: 1 to 63 characters.

SecurityPolicies/IPv4SrcSecZoneInfo

This table contains source security zone information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```

<SecurityPolicies>
  <IPv4SrcSecZoneInfo>
    <SrcSecZoneInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </SrcSecZoneInfo>
  </IPv4SrcSecZoneInfo>
</SecurityPolicies>

```



```

    </SrcSecZoneInfo>
  </IPv4SrcSecZoneInfo>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcSecZoneInfo
Table type	Multi-instance table
Row name	SrcSecZoneInfo
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: 0 to 16.
NameList	Name of the source security zone list	Data structure	Members include: <ul style="list-style-type: none"> Name. Status.
Name	Name of the source security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
Status	Status of the source security zone.	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.

SecurityPolicies/IPv6SrcSecZoneInfo

This table contains source security zone information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```

<SecurityPolicies>
  <IPv6SrcSecZoneInfo>
    <SrcSecZoneInfo>
      <ID></ID>
      <SeqNum></SeqNum>
    </SrcSecZoneInfo>
  </IPv6SrcSecZoneInfo>
</SecurityPolicies>

```



```

    <NameList>
      <Name></Name>
      <Status></Status>
    </NameList>
  </SrcSecZoneInfo>
</IPv6SrcSecZoneInfo>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6SrcSecZoneInfo
Table type	Multi-instance table
Row name	SrcSecZoneInfo
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: 0 to 16.
NameList	Name of the source security zone list	Data structure	Members include: <ul style="list-style-type: none"> Name. Status.
Name	Name of the source security zone	N/A	String, case-insensitive. Length: 1 to 31 characters.
Status	Status of the source security zone	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.

SecurityPolicies/IPv4DestSecZoneInfo

This table contains destination security zone information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```

<SecurityPolicies>

```



```

<IPv4DestSecZoneInfo>
  <DestSecZoneInfo>
    <ID></ID>
    <SeqNum></SeqNum>
    <NameList>
      <Name></Name>
      <Status></Status>
    </NameList>
  </DestSecZoneInfo>
</IPv4DestSecZoneInfo>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestSecZoneInfo
Table type	Multi-instance table
Row name	DestSecZoneInfo
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: 0 to 16.
NameList	Name of the destination security zone list	Data structure	Members include: <ul style="list-style-type: none"> Name. Status.
Name	Name of the destination security zone	N/A	String, case-insensitive. <ul style="list-style-type: none"> Length: 1 to 31 characters.
Status	Status of the destination security zone.	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.

SecurityPolicies/IPv6DestSecZoneInfo

This table contains destination security zone information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6DestSecZoneInfo>
    <DestSecZoneInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </DestSecZoneInfo>
  </IPv6DestSecZoneInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6DestSecZoneInfo
Table type	Multi-instance table
Row name	DestSecZoneInfo
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: 0 to 16.
NameList	Name of the destination security zone list	Data structure	Members include: <ul style="list-style-type: none">Name.Status
Name	Name of the destination security zone	N/A	String, case-insensitive. <ul style="list-style-type: none">Length: 1 to 31 characters.
Status	Status of the destination security zone	N/A	Boolean: <ul style="list-style-type: none">true—Effective.false—Not effective.

SecurityPolicies/IPv4SrcMacAddrGrpInfo

This table contains source MAC address object group information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4SrcMacAddrGrpInfo>
    <SrcMacAddrGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </SrcMacAddrGrpInfo>
  </IPv4SrcMacAddrGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcMacAddrGrpInfo
Table type	Multi-instance table
Row name	SrcMacAddrGrpInfo
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: 0 to 1024.
NameList	Name of the source MAC address group list	Data structure	Members include: <ul style="list-style-type: none">Name.Status.
Name	Name of the source MAC address group	N/A	String, case-insensitive. Length: 1 to 31 characters.

Status	Status of the source MAC address group.	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.
--------	-----------------------------------------	-----	----------------------------------------------------------------------------------------------------------

SecurityPolicies/IPv4SrcAddrGrpInfo

This table contains source address object group information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```

<SecurityPolicies>
  <IPv4SrcAddrGrpInfo>
    <SrcAddrGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </SrcAddrGrpInfo>
  </IPv4SrcAddrGrpInfo>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4SrcAddrGrpInfo
Table type	Multi-instance table
Row name	SrcAddrGrpInfo
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: 0 to 1024.
NameList	Name of the source	Data structure	Members include:

	address group list		<ul style="list-style-type: none"> Name. Status.
Name	Name of the source address group	N/A	String, case-insensitive. Length: 1 to 31 characters.
Status	Status of the source address group.	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.

SecurityPolicies/IPv6SrcAddrGrpInfo

This table contains source address object group information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```

<SecurityPolicies>
  <IPv6SrcAddrGrpInfo>
    <SrcAddrGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </SrcAddrGrpInfo>
  </IPv6SrcAddrGrpInfo>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6SrcAddrGrpInfo
Table type	Multi-instance table
Row name	SrcAddrGrpInfo
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: 0 to 1024.
NameList	Name of the source address group list	Data structure	Members include: <ul style="list-style-type: none"> Name. Status
Name	Name of the source address group	N/A	String, case-insensitive. Length: 1 to 31 characters.
Status	Status of the source address group.	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.

SecurityPolicies/IPv4DestAddrGrpInfo

This table contains destination address object group information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```

<SecurityPolicies>
  <IPv4DestAddrGrpInfo>
    <DestAddrGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </DestAddrGrpInfo>
  </IPv4DestAddrGrpInfo>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4DestAddrGrpInfo
Table type	Multi-instance table
Row name	DestAddrGrpInfo
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: 0 to 1024.
NameList	Name of the destination address group list	Data structure	Members include: <ul style="list-style-type: none">Name.Status
Name	Name of the destination address group	N/A	String, case-insensitive. Length: 1 to 31 characters.
Status	Status of the destination address group.	N/A	Boolean: <ul style="list-style-type: none">true—Effective.false—Not effective.

SecurityPolicies/IPv6DestAddrGrpInfo

This table contains destination address object group information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6DestAddrGrpInfo>
    <DestAddrGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </DestAddrGrpInfo>
  </IPv6DestAddrGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6DestAddrGrpInfo
Table type	Multi-instance table

Row name	DestAddrGrpInfo
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: 0 to 1024.
NameList	Name of the destination address group list	Data structure	Members include: <ul style="list-style-type: none"> Name. Status
Name	Name of the destination address group	N/A	String, case-insensitive. Length: 1 to 31 characters.
Status	Status of the destination address group.	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.

SecurityPolicies/IPv4ServGrpInfo

This table contains service object group information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```

<SecurityPolicies>
  <IPv4ServGrpInfo>
    <ServGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </ServGrpInfo>
  </IPv4ServGrpInfo>
</SecurityPolicies>

```


Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4ServGrpInfo
Table type	Multi-instance table
Row name	ServGrpInfo
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: 0 to 1024.
NameList	Name of the service object group list	Data structure	Members include: <ul style="list-style-type: none">NameStatus
Name	Name of the service object group	N/A	String, case-insensitive. Length: 1 to 31 characters.
Status	Status of the service object group	N/A	Boolean: <ul style="list-style-type: none">true—Effective.false—Not effective.

SecurityPolicies/IPv6ServGrpInfo

This table contains service object group information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6ServGrpInfo>
    <ServGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
```



```

    </ServGrpInfo>
  </IPv6ServGrpInfo>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6ServGrpInfo
Table type	Multi-instance table
Row name	ServGrpInfo
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: 0 to 1024.
NameList	Name of the service object group list	Data structure	Members include: <ul style="list-style-type: none"> Name Status
Name	Name of the service object group	N/A	String, case-insensitive. Length: 1 to 31 characters.
Status	Status of the service object group	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.

SecurityPolicies/IPv4AppInfo

This table contains application information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```

<SecurityPolicies>
  <IPv4AppInfo>
    <AppInfo>
      <ID></ID>
      <SeqNum></SeqNum>
    </AppInfo>
  </IPv4AppInfo>
</SecurityPolicies>

```



```

    <NameList>
      <Name></Name>
      <Status></Status>
    </NameList>
  </AppInfo>
</IPv4AppInfo>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4AppInfo
Table type	Multi-instance table
Row name	AppInfo
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: 0 to 1024.
NameList	Name of the application list	Data structure	Members include: <ul style="list-style-type: none"> Name Status
Name	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.
Status	Status of the application	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.

SecurityPolicies/IPv6AppInfo

This table contains application information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```

<SecurityPolicies>

```



```

<IPv6AppInfo>
  <AppInfo>
    <ID></ID>
    <SeqNum></SeqNum>
    <NameList>
      <Name></Name>
      <Status></Status>
    </NameList>
  </AppInfo>
</IPv6AppInfo>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6AppInfo
Table type	Multi-instance table
Row name	AppInfo
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: 0 to 1024.
NameList	Name of the application list	Data structure	Members include: <ul style="list-style-type: none"> Name Status
Name	Name of the application	N/A	String, case-insensitive. Length: 1 to 63 characters.
Status	Status of the application.	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.

SecurityPolicies/IPv4AppGrpInfo

This table contains application group information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4AppGrpInfo>
    <AppGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </AppGrpInfo>
  </IPv4AppGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4AppGrpInfo
Table type	Multi-instance table
Row name	AppGrpInfo
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: 0 to 1024.
NameList	Name of the application group list	Data structure	Members include: <ul style="list-style-type: none">NameStatus
Name	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.

Status	Status of the application group.	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.
--------	----------------------------------	-----	----------------------------------------------------------------------------------------------------------

SecurityPolicies/IPv6AppGrpInfo

This table contains application group information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```

<SecurityPolicies>
  <IPv6AppGrpInfo>
    <AppGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </AppGrpInfo>
  </IPv6AppGrpInfo>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6AppGrpInfo
Table type	Multi-instance table
Row name	AppGrpInfo
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: 0 to 1024.
NameList	Name of the	Data structure	Members include:

	application group list		<ul style="list-style-type: none"> Name Status
Name	Name of the application group	N/A	String, case-insensitive. Length: 1 to 63 characters.
Status	Status of the application group.	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.

SecurityPolicies/IPv4UserInfo

This table contains user information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```

<SecurityPolicies>
  <IPv4UserInfo>
    <UserInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </UserInfo>
  </IPv4UserInfo>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4UserInfo
Table type	Multi-instance table
Row name	UserInfo
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.
NameList	Name of the user list	Data structure	Members include: <ul style="list-style-type: none"> Name Status
Name	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.
Status	Status of the user.	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.

SecurityPolicies/IPv6UserInfo

This table contains user information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv6UserInfo>
    <UserInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <NameList>
        <Name></Name>
        <Status></Status>
      </NameList>
    </UserInfo>
  </IPv6UserInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6UserInfo
Table type	Multi-instance table
Row name	UserInfo
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.
NameList	Name of the user list	Data structure	Members include: <ul style="list-style-type: none">Name.Status.
Name	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.
Status	Status of the user	N/A	Boolean: <ul style="list-style-type: none">true—Effective.false—Not effective.

SecurityPolicies/IPv4UserGrpInfo

This table shows user group information for an IPv4 security policy rule that is redundant or has a redundant rule.

XML structure

```
<SecurityPolicies>
  <IPv4UserGrpInfo>
    <UserGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <UserGrpList>
        <Name></Name>
        <Status></Status>
      </UserGrpList>
    </UserGrpInfo>
  </IPv4UserGrpInfo>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4UserGrpInfo

Table type	Multi-instance table
Row name	UserGrpInfo
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.
UserGrpList	Name of the user group list	Data structure	Members include: <ul style="list-style-type: none"> Name. Status
Name	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 (@).
Status	Status of the user group.	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.

SecurityPolicies/IPv6UserGrpInfo

This table shows user group information for an IPv6 security policy rule that is redundant or has a redundant rule.

XML structure

```

<SecurityPolicies>
  <IPv6UserGrpInfo>
    <UserGrpInfo>
      <ID></ID>
      <SeqNum></SeqNum>
      <UserGrpList>
        <Name></Name>
        <Status></Status>
      </UserGrpList>
    </UserGrpInfo>
  </IPv6UserGrpInfo>
</SecurityPolicies>

```



```

    </UserGrpInfo>
  </IPv6UserGrpInfo>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6UserGrpInfo
Table type	Multi-instance table
Row name	UserGrpInfo
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.
UserGrpList	Name of the user group list	Data structure	Members include: <ul style="list-style-type: none"> Name. Status
Name	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 (@).
Status	Status of the user group.	N/A	Boolean: <ul style="list-style-type: none"> true—Effective. false—Not effective.

SecurityPolicies/RulesCounting

This table contains rules counting information for security policies.

XML structure

```
<SecurityPolicies>
  <RulesCounting>
    <Enable></Enable>
  </RulesCounting>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	RulesCounting
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 counting for the security policy.	N/A	Boolean: <ul style="list-style-type: none">true—Enable.false—Disable.

SecurityPolicies/AppOptimized

This table contains application statistics for security policy rules.

XML structure

```
<SecurityPolicies>
  <AppOptimized>
    <AppFlux>
      <PolicyType></PolicyType>
      <RuleID></RuleID>
      <RuleName></RuleName>
      <TotalFlux></TotalFlux>
      <Grade></Grade>
      <Count></Count>
      <IsOptimized></IsOptimized>
    </AppFlux>
    <AppList>
      <AppInfo></AppInfo>
    </AppList>
  </AppOptimized>
</SecurityPolicies>
```



```

    <RiskLevel></RiskLevel>
  <SecurityRisks></SecurityRisks>
</AppFlux>
</AppOptimized>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	AppOptimized
Table type	Multi-instance table
Row name	AppFlux
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PolicyType	Rule type.	Index	Enumeration: <ul style="list-style-type: none"> 1—IPv4. 2—IPv6.
RuleID	Rule ID.	Index	Unassigned integer. Value range: 0 to 65534.
RuleName	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.
TotalFlux	Flux of statistics.	N/A	N/A
Grade	Security grade.	N/A	Unassigned integer. Value range: 0 to 100.
Count	The number of risky rules.	N/A	Unassigned integer. Value range: 0 to 65534.
IsOptimized	Whether to optimize.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
AppList	Flux statistics of the application list.	Data structure	Members include: <ul style="list-style-type: none"> AppInfo
AppInfo	Information of the application.	N/A	String, case-insensitive. Length: 1 to 255 characters.
RiskLevel	Risk level of the rule.	N/A	Unassigned integer. Value range: 1 to 5.

SecurityRisks	Security risks of the rule.	N/A	N/A
---------------	-----------------------------	-----	-----

SecurityPolicies/RuleFlux

This table contains application statistics for security policy rule.

XML structure

```

<SecurityPolicies>
  <RuleFlux>
    <AppFlux>
      <PolicyType></PolicyType>
      <RuleID></RuleID>
      <QueryType></QueryType>
      <SeqNum></SeqNum>
      <AppCount></AppCount>
      <RuleName></RuleName>
      <ChildRuleID></ChildRuleID>
      <ChildRuleName></ChildRuleName>
      <TotalFlux></TotalFlux>
      <Profile></Profile>
      <AppList>
        <AppInfo></AppInfo>
      </AppList>
    </AppFlux>
  </RuleFlux>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	RuleFlux
Table type	Multi-instance table
Row name	AppFlux
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PolicyType	Rule type.	Index	Enumeration:

			<ul style="list-style-type: none"> 1—IPv4. 2—IPv6.
RuleID	Rule ID.	Index	Unassigned integer. Value range: 0 to 65534.
QueryType	The time range.	Index	Enumeration: <ul style="list-style-type: none"> 0—Today. 1—Last Three Days. 2—Last Week. 3—Last Month.
SeqNum	Sequence number.	Index	Unassigned integer. Value range: 0 to 65535.
AppCount	The count of applications.	N/A	Unassigned integer. Value range: 0 to 65535.
RuleName	Rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.
ChildRuleID	Child rule ID.	N/A	Unassigned integer. Value range: 0 to 65534.
ChildRuleName	Child rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.
TotalFlux	Flux of statistics.	N/A	N/A
Profile	Profile name.	N/A	String. Length: 1 to 63 characters.
AppList	Flux statistics of the application list.	Data structure	Members include: <ul style="list-style-type: none"> AppInfo
AppInfo	Information of the application.	N/A	String, case-insensitive. Length: 1 to 255 characters.

SecurityPolicies/AppOptimizedStatus

This table contains the progress of batch application optimization.

XML structure

```

<SecurityPolicies>
  <AppOptimizedStatus>
    <Result></Result>
    <Description></Description>
    <Percent></Percent>
  </AppOptimizedStatus>
</SecurityPolicies>

```


Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions
Result	Optimization result.	N/A	Boolean: <ul style="list-style-type: none">true—Successful.false—Failed.
Description	The case of failure.	N/A	String, case-insensitive. Length: 1 to 127 characters.
Percent	Progress in percentage.	N/A	Unassigned integer. Value range: 0 to 100.

SecurityPolicies/AppOptimizedAdvice

This table contains the advice of application optimization.

XML structure

```
<SecurityPolicies>
  <AppOptimizedAdvice>
    <PolicyType></PolicyType>
    <OptimizeType></OptimizeType>
    <RuleID></RuleID>
    <RuleName></RuleName>
    <NewRuleID></NewRuleID>
    <NewRuleName></NewRuleName>
    <AvAction></AvAction>
    <IpsAction></IpsAction>
    <UrlAction></UrlAction>
    <DFilterAction></DFilterAction>
    <FFilterAction></FFilterAction>
  </AppOptimizedAdvice>
</SecurityPolicies>
```


Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions
PolicyType	Rule type.	Index	Enumeration: <ul style="list-style-type: none"> 1—IPv4. 2—IPv6.
OptimizeType	The time range of optimization.	Index	Enumeration: <ul style="list-style-type: none"> 0—Today. 1—Last Three Days. 2—Last Week. 3—Last Month.
RuleID	Rule ID.	Index	Unassigned integer. Value range: 0 to 65534.
RuleName	Rule name.	Index	String, case-insensitive. Length: 1 to 127 characters.
NewRuleID	New rule ID.	N/A	Unassigned integer. Value range: 0 to 65534.
NewRuleName	New rule name.	N/A	String, case-insensitive. Length: 1 to 127 characters.
AvAction	AV action.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
IpsAction	IPS action.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
UrlAction	URL action.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
DFilterAction	Data filter action.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
FFilterAction	File filter action.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable.

			<ul style="list-style-type: none"> false—Disable.
--	--	--	------------------------------------------------------------------

SecurityPolicies/IPv4RuleGroup

This table contains information about an IPv4 security policy rule group.

XML structure

```
<SecurityPolicies>
  <IPv4RuleGroup>
    <RuleGroup>
      <RuleGroupName></RuleGroupName>
      <Description></Description>
      <FromRuleName></FromRuleName>
      <ToRuleName></ToRuleName>
      <Enable></Enable>
      <IncludeMember></IncludeMember>
    </RuleGroup>
  </IPv4RuleGroup>
</SecurityPolicies>
```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv4RuleGroup
Table type	Multi-instance table
Row name	RuleGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RuleGroupName	Rule group name.	Index	String, case-insensitive. Length: 1 to 63 characters.
Description.	Description	N/A	String. Length: 1 to 127 characters.
FromRuleName	The begin rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.
ToRuleName	The end rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.

IncludeMember	Delete all the rules under the rule group.	N/A	This column is used when a rule group is deleted. If this column is specified, the rules under the rule group will also be deleted.
Enable	Enable the rule group.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable

SecurityPolicies/IPv6RuleGroup

This table contains information about an IPv6 security policy rule group.

XML structure

```

<SecurityPolicies>
  <IPv6RuleGroup>
    <RuleGroup>
      <RuleGroupName></RuleGroupName>
      <Description></Description>
      <FromRuleName></FromRuleName>
      <ToRuleName></ToRuleName>
      <Enable></Enable>
      <IncludeMember></IncludeMember>
    </RuleGroup>
  </IPv6RuleGroup>
</SecurityPolicies>

```

Table description

Item	Description
Feature name	SecurityPolicies
Table name	IPv6RuleGroup
Table type	Multi-instance table
Row name	RuleGroup
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
RuleGroupName	Rule group name.	Index	String, case-insensitive. Length: 1 to 63 characters.

Description.	Description	N/A	String. Length: 1 to 127 characters.
FromRuleName	The begin rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.
ToRuleName	The end rule name	N/A	String, case-insensitive. Length: 1 to 127 characters.
IncludeMember	Delete all the rules under the rule group.	N/A	This column is used when a rule group is deleted. If this column is specified, the rules under the rule group will also be deleted.
Enable	Enable the rule group.	N/A	Boolean: <ul style="list-style-type: none"> • true—Enable. • false—Disable

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SecurityPolicies

SecurityPolicies/IPv4Rules

Message	Explanation
Failed to create the rule because the rule number exceeds the upper limit.	During executing create operation, the current number of the rule must under the limit.
The time range does not exist and the rule will be set to inactive.	During executing create、merge、replace operation, the time range must exist.
Failed to create the rule because the ID of the rule to be moved is equal to the target one.	During executing create operation, the ID of the rule to be moved can't be equal to the target one.
Failed to merge the rule because the ID of the rule to be moved is equal to the target one.	During executing merge operation, the ID of the rule to be moved can't be equal to the target one.
Failed to replace the rule because the ID of the rule to be moved is equal to the target one.	During executing replace operation, the ID of the rule to be moved can't be equal to the target one.
Failed to move the rule because the specified rule does not exist.	During executing create、merge、replace operation, the specified rule must exist.
Failed to create the rule because the action of the rule is not specified.	During executing create operation, the action of the rule must be specified.
Failed to merge the rule because the action of the rule is not specified.	During executing merge operation, the action of the rule must be specified.
The maximum number of rules has been reached.	During executing create operation, the current number of the rule must under the maximum.
The app group does not exist.	During executing create、merge、replace operation, the app group must exist.
The application does not exist.	During executing create、merge、replace operation, the application must exist.
The app group and the application does not exist, the rule does not match packets.	During executing create、merge、replace operation, the app group and the application must exist.
The application does not exist, the rule does not match packets.	During executing create、merge、replace operation, the application must exist.
The app group does not exist, the rule does not match packets.	During executing create、merge、replace operation, the app group must exist.
The name is already used by another security policy rule.	During executing create、merge、replace operation, the name of the new rule can't be exist.
Invalid rule name.	During executing create、merge、replace operation, the name of the new rule must be valid.

SecurityPolicies/IPv6Rules

Message	Explanation
Failed to create the rule because the rule number exceeds the upper limit.	During executing create operation, the current number of the rule must under the limit.

The time range does not exist and the rule will be set to inactive.	During executing create、merge、replace operation, the time range must exist.
Failed to create the rule because the ID of the rule to be moved is equal to the target one.	During executing create operation, the ID of the rule to be moved can't be equal to the target one.
Failed to merge the rule because the ID of the rule to be moved is equal to the target one.	During executing merge operation, the ID of the rule to be moved can't be equal to the target one.
Failed to replace the rule because the ID of the rule to be moved is equal to the target one.	During executing replace operation, the ID of the rule to be moved can't be equal to the target one.
Failed to move the rule because the specified rule does not exist.	During executing create、merge、replace operation, the specified rule must exist.
Failed to create the rule because the action of the rule is not specified.	During executing create operation, the action of the rule must be specified.
Failed to merge the rule because the action of the rule is not specified.	During executing merge operation, the action of the rule must be specified.
The maximum number of rules has been reached.	During executing create operation, the current number of the rule must under the maximum.
The app group does not exist. 指定的应用组不存在。	During executing create、merge、replace operation, the app group must exist.
The application does not exist. 指定的应用不存在。	During executing create、merge、replace operation, the application must exist.
The app group and the application does not exist, the rule does not match packets.	During executing create、merge、replace operation, the app group and the application must exist.
The application does not exist, the rule does not match packets.	During executing create、merge、replace operation, the application must exist.
The app group does not exist, the rule does not match packets.	During executing create、merge、replace operation, the app group must exist.
The name is already used by another security policy rule.	During executing create、merge、replace operation, the name of the new rule can't be exist.
Invalid rule name.	During executing create、merge、replace operation, the name of the new rule must be valid.

SecurityPolicies/IPv4SrcSecZone

Message	Explanation
Invalid name.	During executing create、merge、replace operation, the name must be valid.
Maximum number of source seczone already reached.	During executing create、merge、replace operation, the number of source seczone must be under the maximum.
The source seczone is already existed in the rule.	During executing create、merge、replace operation, the new source zone can't be existed.

SecurityPolicies/IPv6SrcSecZone

Message	Explanation
Invalid name.	During executing create、merge、replace operation, the name must be valid.
Maximum number of source seczone already reached.	During executing create、merge、replace operation, the number of source seczone must be under the maximum.
The source seczone is already existed in the rule.	During executing create、merge、replace operation, the new source zone can't be existed.

SecurityPolicies/IPv4DestSecZone

Message	Explanation
Invalid name.	During executing create、merge、replace operation, the name of must be valid.
Maximum number of destination seczone already reached.	During executing create、merge、replace operation, the number of destination seczone must be under the maximum.
The destination seczone is already existed in the rule.	During executing create、merge、replace operation, the new destination zone can't be existed.

SecurityPolicies/IPv6DestSecZone

Message	Explanation
Invalid name.	During executing create、merge、replace operation, the name must be valid.
Maximum number of destination seczone already reached.	During executing create、merge、replace operation, the number of destination seczone must be under the maximum.
The destination seczone is already existed in the rule.	During executing create、merge、replace operation, the new destination zone can't be existed.

SecurityPolicies/IPv4SrcAddr

Message	Explanation
Illegal source IP address object group type.	During executing create、merge、replace operation, the source IP address object group type must be legal.
Invalid name.	During executing create、merge、replace operation, the name must be valid.
Maximum number of source ip already reached.	During executing create、merge、replace operation, the number of source ip address must be under the maximum.

SecurityPolicies/IPv6SrcAddr

Message	Explanation
Illegal source IP address object group type.	During executing create、merge、replace operation, the source IP address object group type must be legal.
Invalid name.	During executing create、merge、replace operation, the name must be valid.
Maximum number of source ip already reached.	During executing create、merge、replace operation, the number of source ip address must be under the maximum.

SecurityPolicies/IPv4DestAddr

Message	Explanation
Illegal destination IP address object group type.	During executing create、merge、replace operation, the destination IP address object group type must be legal.
Invalid name.	During executing create、merge、replace operation, the name must be valid.
Maximum number of destination ip already reached.	During executing create、merge、replace operation, the number of destination ip address must be under the maximum.

SecurityPolicies/IPv6DestAddr

Message	Explanation
Illegal destination IP address object group type.	During executing create、merge、replace operation, the destination IP address object group type must be legal.
Invalid name.	During executing create、merge、replace operation, the name must be valid.
Maximum number of destination ip already reached.	During executing create、merge、replace operation, the number of destination ip address must be under the maximum.

SecurityPolicies/IPv4SrcMacAddr

Message	Explanation
Invalid name.	During executing create、merge、replace operation, the name must be valid.
Maximum number of source MAC already reached.	During executing create、merge、replace operation, the number of source MAC address must be under the maximum.
Illegal source MAC address object group type.	During executing create、merge、replace operation, the source MAC address object group type must be legal.

SecurityPolicies/IPv4ServGrp

Message	Explanation
Illegal service object group type.	During executing create、merge、replace operation, the service object object group type must be legal.
Invalid name.	During executing create、merge、replace operation, the name must be valid.
Maximum number of service group already reached.	During executing create、merge、replace operation, the number of service group must be under the maximum.

SecurityPolicies/IPv6ServGrp

Message	Explanation
Illegal service object group type.	During executing create、merge、replace operation, the service object object group type must be legal.
Invalid name.	During executing create、merge、replace operation, the name must be valid.
Maximum number of service group already reached.	During executing create、merge、replace operation, the number of service group must be under the maximum.

SecurityPolicies/IPv4App

Message	Explanation
Can not use 'invalid' or 'other' as app-group or application name.	During executing create、merge、replace operation, the app-group or application name can't be 'invalid' or 'other'.
Maximum number of service group already reached.	During executing create、merge、replace operation, the number of service group must be under the maximum.
Maximum number of application already reached.	During executing create、merge、replace operation, the number of application must be under the maximum.

SecurityPolicies/IPv6App

Message	Explanation
Can not use 'invalid' or 'other' as app-group or application name.	During executing create、merge、replace operation, the app-group or application name can't be 'invalid' or 'other'.
Maximum number of service group already reached.	During executing create、merge、replace operation, the number of service group must be under the maximum.
Maximum number of application already reached.	During executing create、merge、replace operation, the number of application must be under the maximum.

SecurityPolicies/IPv4AppGrp

Message	Explanation
Can not use 'invalid' or 'other' as app-group or application name.	During executing create、merge、replace operation, the app-group or application name can't be 'invalid' or 'other'.
Maximum number of application group already reached.	During executing create、merge、replace operation, the number of application group must be under the maximum.

SecurityPolicies/IPv6AppGrp

Message	Explanation
Can not use 'invalid' or 'other' as app-group or application name.	During executing create、merge、replace operation, the app-group or application name can't be 'invalid' or 'other'.
Maximum number of application group already reached.	During executing create、merge、replace operation, the number of application group must be under the maximum.

SecurityPolicies/IPv4User

Message	Explanation
Invalid username.	During executing create、merge、replace operation, the username must be valid.
Maximum number of user already reached.	During executing create、merge、replace operation, the number of user must be under the maximum.

SecurityPolicies/IPv6User

Message	Explanation
Invalid username.	During executing create、merge、replace operation, the username must be valid.
Maximum number of user already reached.	During executing create、merge、replace operation, the number of user must be under the maximum.

SecurityPolicies/IPv4UserGrp

Message	Explanation
Maximum number of user-group already reached.	During executing create、merge、replace operation, the number of user-group must be under the maximum.

SecurityPolicies/IPv6UserGrp

Message	Explanation
Maximum number of user-group already reached.	During executing create、merge、replace operation, the number of user-group must be under the maximum.

SecurityPolicies/AppOptimizedStatus

Message	Explanation
Failed to create the rule because the rule number exceeds the upper limit.	The number of rule must be under the maximum when create rules.
The maximum number of rules has been reached.	The number of rule must be under the maximum when create rules.
Failed to reference the protection action during the auto batch optimization operation.	During the auto batch optimization operation, the protection action must be referenced successfully.
Auto batch optimization failed.	Auto batch optimization failed.

SecurityPolicies/CommitCfgChange

Message	Explanation
The accelerate state of IPv4 or IPv6 is disable.	The accelerate state of IPv4 or IPv6 is disable.

SecurityPolicies/MoveIPv4Rule

Message	Explanation
Failed to move the rule because the ID of the rule to be moved is equal to the target one.	During the operation, the ID of the rule to be moved can't be equal to the target one.
Failed to move the rule because the specified rule does not exist.	During the operation, the specified rule must exist.

SecurityPolicies/MoveIPv6Rule

Message	Explanation
Failed to move the rule because the ID of the rule to be moved is equal to the target one.	During the operation, the ID of the rule to be moved can't be equal to the target one.
Failed to move the rule because the specified rule does not exist.	During the operation, the specified rule must exist.

SecurityPolicies/SingleOptimized

Message	Explanation
Failed to create the rule because the rule number	During the operation, the current number of the rule must under

exceeds the upper limit.	the limit.
The maximum number of rules has been reached.	During the operation, the current number of the rule must under the maximum.
The name is already used by another security policy rule.	During the operation, the name of the new rule can't be exist.
The policy has been optimized.	During the operation, the policy can't have been optimized already.

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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>
```



```

        <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: <ul style="list-style-type: none">truefalse	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: <ul style="list-style-type: none">true—Enable the filtering feature.false—Disable the filtering feature (default).

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Columns	5
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XML structure	5
Table description	6
Columns	6
SecurityZone/VsipFilterSwitch	6
XML structure	6
Table description	7
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: <ul style="list-style-type: none">truefalse	N/A
L2Interface	Whether layer 2 interface member is supported.	N/A	Boolean: <ul style="list-style-type: none">truefalse	N/A
VLAN	Whether VLAN member is supported.	N/A	Boolean: <ul style="list-style-type: none">truefalse	N/A
IP	Whether IP member is supported.	N/A	Boolean: <ul style="list-style-type: none">truefalse	N/A

Column name	Column description	Column type	Data type and restrictions	Remark
ServicePath	Whether service path member is supported.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• true—Enabled.• false—Disabled.

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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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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: <ul style="list-style-type: none">• true.• false.

Contents

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SRVCHN

SRVCHN/Paths

Message	Explanation
Acl name and acl number can't be set at the same time.	Acl name and acl number can't be set at the same time, please modify configuration under guidance.
Invalid address.	Invalid address, please modify configuration under guidance.
This device doesn't support internal service-chain configurations.	This device doesn't support internal service-chain configurations, please modify configuration under guidance.
This device doesn't support external service-chain configurations.	This device doesn't support external service-chain configurations, please modify configuration under guidance.

SRVCHN/IfMatches

Message	Explanation
Path does not exist.	Path does not exist, please modify configuration under guidance.
Process srvchn is not started.	Process srvchn is not started, please modify configuration under guidance.
Acl name and acl number can't be set at the same time.	Acl name and acl number can't be set at the same time, please modify configuration under guidance.
This table doesn't support delete or remove column separately.	This table doesn't support delete or remove column separately, please modify configuration under guidance.
Acl name or number is necessary here.	Acl name or number is necessary here, please modify configuration under guidance.
The operation conflicts with some existing configurations.	The operation conflicts with some existing configurations, please modify configuration under guidance.
This device doesn't support internal service-chain configurations.	This device doesn't support internal service-chain configurations, please modify configuration under guidance.

SRVCHN/Funcs

Message	Explanation
Path does not exist.	Path does not exist, please modify configuration under guidance.
A service appeared more than once.	A service appeared more than once, please modify configuration under guidance.

Process srvchn is not started.	Process srvchn is not started, please modify configuration under guidance.
This device does not support blade load balance team configurations.	This device does not support blade load balance team configurations, please modify configuration under guidance.
FunctionID can only be 1 when the device does not support load balancing team configurations.	FunctionID can only be 1 when the device does not support load balancing team configurations, please modify configuration under guidance.

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XML structure	15
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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: <ul style="list-style-type: none"> 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
			<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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_EXCHANGED. • 25—SCTP_ESTABLISHED. • 26—SCTP_SHUTDOWN_SENT. • 27—SCTP_SHUTDOWN_RECEIVED. • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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	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: <ul style="list-style-type: none"> • 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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
EnState	Session state(Enumeration).	N/A	Enumeration: <ul style="list-style-type: none"> • 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_EXCHANGED. • 25—SCTP_ESTABLISHED. • 26—SCTP_SHUTDOWN_SENT. • 27—SCTP_SHUTDOWN_RECEIVED. • 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

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionDir	Direction of the session.	N/A	Enumeration: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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. <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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
			<ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 0—DNS: 1 to 100000 seconds. • 1-16—FTP-XDMCP: 5 to 100000 seconds Default aging time: <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none">• 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
			<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">Type.Threshold.	
Type	Type of traffic-based session logging.	N/A	Enumeration: <ul style="list-style-type: none">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 100000.	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: <ul style="list-style-type: none">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
				<p>If no ACL is specified, this configuration enables session logging for all IPv4 sessions on the interface.</p> <p>This column can be null.</p>

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.	<p>This column can only be the index of local VA, global VA or 3 layer interface except loopback, NULL, FC,</p>

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">truefalse (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: <ul style="list-style-type: none">1—DNS.2—HTTP.	Default, sessions of these protocols are not synchronized.
EnableBackup	Whether enable protocol backup.	N/A	Boolean: <ul style="list-style-type: none">true—YESfalse—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: <ul style="list-style-type: none">true—YESfalse—NO(default).	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: <ul style="list-style-type: none">true—YESfalse—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: <ul style="list-style-type: none"> Type. Threshold. 	N/A
Type	Type of traffic-based Traffic logging.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">true—YESfalse—NO	N/A
Mode	Whether by-server	N/A	Boolean: <ul style="list-style-type: none">true—YESfalse—NO	N/A
ACLNumber	ACL number	N/A	Unsigned integer. <ul style="list-style-type: none">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: <ul style="list-style-type: none"> true—YES false—NO 	N/A
Mode	Whether by-server	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO 	N/A
ACLNumber	ACL number	N/A	Unsigned integer. <ul style="list-style-type: none"> 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>
        <ClmRate></ClmRate>
        <LimitType>
          <PerSource></PerSource>
          <PerDestination></PerDestination>

```



```

        <PerService></PerService>
    </LimitType>
    <Description></Description>
    <PermitNew></PermitNew>
</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.
ClmRate	Maximum number of connections per second	N/A	Unsigned integer. Value range: 5 to 10000000.	When the number of connections per second greater than maximum number of connections per second, new connections cannot be created. This column is affirmatively chosen item.
LimitType	Connection limit type	Data structure.	Members include: <ul style="list-style-type: none"> PerSource. PerDestination. PerService. 	N/A
PerSource	Limits connections by source IP address.	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A
PerDestination	Limits connections by destination IP address.	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A
PerService	Limits connections by service port.	N/A	Boolean: <ul style="list-style-type: none"> 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
PermitNew	Permit new connection establishment after user connections exceed the upper limit.	N/A	Boolean: <ul style="list-style-type: none"> true—YES. false—NO(default). 	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>
        <ClmRate></ClmRate>
        <LimitType>
          <PerSource></PerSource>
          <PerDestination></PerDestination>
          <PerService></PerService>
        </LimitType>
        <Description></Description>
        <PermitNew></PermitNew>
      </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

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.
ClmRate	Maximum number of connections per second	N/A	Unsigned integer. Value range: 5 to 10000000.	When the number of connections per second greater than maximum number of connections per second, new connections cannot be created. This column is affirmatively chosen item.
LimitType	Connection limit type	Data structure.	Members include: <ul style="list-style-type: none"> PerSource. PerDestination. PerService. 	N/A
PerSource	Limits connections by source IP address.	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A
PerDestination	Limits connections by destination IP address.	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PerService	Limits connections by service port.	N/A	Boolean: <ul style="list-style-type: none"> 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
PermitNew	Permit new connection establishment after user connections exceed the upper limit.	N/A	Boolean: <ul style="list-style-type: none"> true—YES. false—NO(default). 	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: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A

Session/SessionLogFlowBegin

This table contains session log flow begin configuration.

XML structure

```

<Session>
  <SessionLogFlowBegin>
    <SessionCreateLog></SessionCreateLog>
  </SessionLogFlowBegin>
</Session>

```

Table description

Item	Description
Feature name	Session
Table name	SessionLogFlowBegin
Table type	Single-instance table
Row name	N/A

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionCreateLog	Whether enable session create logging.	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A

Session/SessionLogFlowEnd

This table contains session log flow end configuration.

XML structure

```

<Session>
  <SessionLogFlowEnd>
    <SessionDeleteLog></SessionDeleteLog>
  </SessionLogFlowEnd>
</Session>

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionDeleteLog	Whether enable session deletelogging.	N/A	Boolean: <ul style="list-style-type: none"> 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>
```


</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. <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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
			<ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 0—DNS: 1 to 100000 seconds. • 1-16—FTP-XDMCP: 5 to 100000 seconds Default aging time: <ul style="list-style-type: none"> • 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
			<ul style="list-style-type: none"> 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.	<p>This value can be pre-defined or user-defined application layer protocol name.</p> <p>Valid characters include digits, letters, hyphens (-), and underlines (_), but can't be "invalid" and "other".</p> <p>The application layer</p>

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: <ul style="list-style-type: none"> • 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
			<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type. Threshold. 	
Type	Type of traffic-based	N/A	Enumeration: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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 100000.	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
        <TCPCount></TCPCount>
        <UDPCount></UDPCount>
        <ICMPCount></ICMPCount>
        <ICMPv6Count></ICMPv6Count>
        <UDPLiteCount></UDPLiteCount>
        <SCTPCount></SCTPCount>
        <DCCPCount></DCCPCount>
        <RawIPCount></RawIPCount>
        <DNSCount></DNSCount>
        <FTPCount></FTPCount>
        <GTPCount></GTPCount>
        <H323Count></H323Count>
        <HTTPCount></HTTPCount>
        <ILSCount></ILSCount>
        <MGCPCount></MGCPCount>
      
```



```

    <NBTCCount></NBTCCount>
    <PPTPCCount></PPTPCCount>
    <RSHCount></RSHCount>
    <RTSPCount></RTSPCount>
    <SCCPCount></SCCPCount>
    <SIPCount></SIPCount>
    <SMTPCount></SMTPCount>
    <SQLNETCount></SQLNETCount>
    <SSHCount></SSHCount>
    <TELNETCount></TELNETCount>
    <TFTPCCount></TFTPCCount>
    <XDMCPCCount></XDMCPCCount>
  </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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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.		<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type. Threshold. 	N/A
Type	Type of traffic-based Traffic logging.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">true—YESfalse—NO	N/A
Mode	Whether by-server	N/A	Boolean: <ul style="list-style-type: none">true—YESfalse—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: <ul style="list-style-type: none">true—YESfalse—NO	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Mode	Whether by-server	N/A	Boolean: <ul style="list-style-type: none"> 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	Session 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.
InitDestinationIp	Destination IP address of the packet from the initiator to the responder.	N/A	Ipv4 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.
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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.	<p>1 This column can be used as query condition.</p> <p>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.</p>
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.	<p>1 This column can be used as query condition.</p> <p>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.</p>

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: <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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>
        <ClmRate></ClmRate>
        <LimitType>
          <PerSource></PerSource>
          <PerDestination></PerDestination>
          <PerService></PerService>
        </LimitType>
        <Description></Description>
        <PermitNew></PermitNew>
      </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
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.
ClimRate	Maximum number of connections per second	N/A	Unsigned integer. Value range: 5 to 10000000.	When the number of connections per second greater than maximum number of connections per second, new connections cannot be created. This column is affirmatively chosen item.
LimitType	Connection limit type	Data structure.	Members include: <ul style="list-style-type: none"> PerSource. PerDestination. PerService. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
PerSource	Limits connections by source IP address.	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A
PerDestination	Limits connections by destination IP address.	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A
PerService	Limits connections by service port.	N/A	Boolean: <ul style="list-style-type: none"> 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
PermitNew	Permit new connection establishment after user connections exceed the upper limit.	N/A	Boolean: <ul style="list-style-type: none"> true—YES. false—NO. 	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>
        <ClmRate></ClmRate>
        <LimitType>
          <PerSource></PerSource>
          <PerDestination></PerDestination>
          <PerService></PerService>
        </LimitType>
        <Description></Description>
        <PermitNew></PermitNew>
      </Rule>
    </Ipv6LimitRules>
  </ConnectionLimit>
</Session>

```



```

    </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
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.
ClmRate	Maximum number of connections per second	N/A	Unsigned integer. Value range: 5 to 10000000.	When the number of connections per second greater than maximum number of connections per second, new connections cannot be created. This column is affirmatively chosen item.
LimitType	Connection limit type	Data structure.	Members include: <ul style="list-style-type: none"> PerSource. PerDestination. PerService. 	N/A
PerSource	Limits connections by source IP address.	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A
PerDestination	Limits connections by destination IP address.	N/A	Boolean: <ul style="list-style-type: none"> true—YES false—NO(default). 	N/A
PerService	Limits connections by service port.	N/A	Boolean: <ul style="list-style-type: none"> 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
PermitNew	Permit new connection establishment after user connections exceed the upper limit.	N/A	Boolean: <ul style="list-style-type: none"> true—YES. false—NO. 	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: <ul style="list-style-type: none"> true. false. 	N/A

Session/SessionLogFlowBegin

This table contains session log flow begin configuration.

XML structure

```

<Session>
  <SessionLogFlowBegin>
    <SessionCreateLog></SessionCreateLog>
  </SessionLogFlowBegin>
</Session>

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionCreateLog	Whether enable session create logging.	N/A	Boolean: <ul style="list-style-type: none">true—YESfalse—NO	N/A

Session/SessionLogFlowEnd

This table contains session log flow end configuration.

XML structure

```
<Session>
  <SessionLogFlowEnd>
    <SessionDeleteLog></SessionDeleteLog>
  </SessionLogFlowEnd>
</Session>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SessionDeleteLog	Whether enable session delete logging.	N/A	Boolean: <ul style="list-style-type: none">true—YESfalse—NO	N/A

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Comware 7 Session NETCONF XML API Error Message Reference

Session/ConnectionLimit/Ipv4LimitRules

Message	Explanation
ACL name must start with an English letter, and it can't be the word 'all'.	ACL ipv4 name must start with an English letter, and it can't be the word 'all'(not case sensitive).
A number or a name is required for the ACL.	<ol style="list-style-type: none">1. A number or a name is required for the ACL2. Operation Replace not allowed to replace from ACL number to ACL name or from ACL name to ACL number.
The low and high thresholds are required.	HighThreshold and LowThreshold are required and not equal to zero.
Low threshold can't be greater than high threshold.	Low threshold can't be greater than high threshold.
Another connection limit rule is using the ACL.	An ACL rule can only be applied by one connection limit rule.

Session/ConnectionLimit/Ipv6LimitRules

Message	Explanation
ACL name must start with an English letter, and it can't be the word 'all'.	ACL ipv6 name must start with an English letter, and it can't be the word 'all'(not case sensitive).
A number or a name is required for the ACL.	<ol style="list-style-type: none">1. A number or a name is required for the ACL.2. Operation Replace not allowed to replace from ACL number to ACL name or from ACL name to ACL number.
The low and high thresholds are required.	HighThreshold and LowThreshold are required and not equal to zero.
Low threshold can't be greater than high threshold.	Low threshold can't be greater than high threshold.
Another connection limit rule is using the ACL.	An ACL rule can only be applied by one connection limit rule.

Session/TopStatistics/Switch

Message	Explanation
The operation is not supported on this the device.	Session top statistics not be supported by this device.
The stop process is running. Please try it later.	Operation undo enable is processing.

Session/Ipv4LogOnInterZones

Message	Explanation
The specified source security zone doesn't exist.	The security zone must exist before being configured as source zone.
The specified destination security zone doesn't exist.	The security zone must exist before being configured as destination zone.
This device doesn't support session traffic log enable { ipv4 ipv6 }.	This device doesn't support session traffic log.

Session/Ipv6LogOnInterZones

Message	Explanation
The specified source security zone doesn't exist.	The security zone must exist before being configured as source zone.
The specified destination security zone doesn't exist.	The security zone must exist before being configured as destination zone.
This device doesn't support session traffic log enable { ipv4 ipv6 }.	This device doesn't support session traffic log.

Session/TrafficLogFlowBegin

Message	Explanation
This device doesn't support session traffic log flow-begin.	This device doesn't support session traffic log flow-begin.

Session/TrafficLogThreshold

Message	Explanation
This device doesn't support session traffic log threshold.	This device doesn't support modify session traffic log threshold.

Session/HotBackup

Message	Explanation
This device doesn't support hotbackup function.	Some devices dose not support backup session or eim entries.

Session/ProtocolHotBackup

Message	Explanation
This device doesn't support hotbackup function.	Some devices dose not support backup session or eim entries (for dns and http).

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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.
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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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.	<p>Layer 2 Ethernet interface</p> <p>Layer 3 Ethernet interface</p> <p>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.</p>
CollectorID	Collector-id	N/A	<p>Unsigned integer.</p> <p>Value range: 1 to MaxCollectorID.</p>	The value of MaxCollectorID depends on the device model.
PacketSamplingRate	sflow sampling-rate	N/A	<p>Unsigned integer.</p> <p>Value range: MinSamplerRate to MaxSamplerRate.</p>	Values of MinSamplerRate and MaxSamplerRate depend on the device model.
SamplingMode	SamplingMode of SFLOW	N/A	<p>Unsigned integer.</p> <ul style="list-style-type: none"> 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	<p>Unsigned integer.</p> <p>Value range: 18 to 512.</p> <p>Default: 128</p>	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.

SFLOW/sFlowFlowInstance

This table contains sFlow flow instance configuration information.

XML structure

```
<SFLOW>
  <sFlowFlowInstance>
    <FlowInstance>
      <IfIndex></IfIndex>
      <Instance></Instance>
    </FlowInstance>
  </sFlowFlowInstance>
</SFLOW>
```



```

    <CollectorID></CollectorID>
    <PacketSamplingRate></PacketSamplingRate>
    <SamplingMode></SamplingMode>
    <MaxHeaderSize></MaxHeaderSize>
  </FlowInstance>
</sFlowFlowInstance>
</SFLOW>

```

Table description

Item	Description
Feature name	SFLOW
Table name	sFlowFlowInstance
Table type	Multi-instance table
Row name	FlowInstance
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.	<p>Layer 2 Ethernet interfaces and Layer 3 Ethernet interfaces are supported.</p> <p>Some versions support interface name. For relevant information, see the XSD document of your product. For information about IfIndex, see "Appendix" in Ifmg NETCONF XML API Configuration Reference.</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
Instance	sFlow instance ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
CollectorID	Collector ID	N/A	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID varies by device model.
PacketSamplingRate	Flow sampling rate	N/A	Unsigned integer. Value range: MinSamplerRate to MaxSamplerRate.	Values of MinSamplerRate and MaxSamplerRate vary by device model.
SamplingMode	Flow sampling mode	N/A	Unsigned integer. <ul style="list-style-type: none"> 1—random. 2—determine. 	The default value of SamplingMode varies by 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/sFlowCounterInstance

This table contains SFLOW counter instance configuration information.

XML structure

```

<SFLOW>
  <sFlowCounterInstance>
    <CounterInstance>
      <IfIndex></IfIndex>
      <Instance></Instance>
      <CollectorID></CollectorID>
      <Interval></Interval>
    </CounterInstance>
  </sFlowCounterInstance>
</SFLOW>

```


Table description

Item	Description
Feature name	SFLOW
Table name	sFlowCounterInstance
Table type	Multi-instance table
Row name	CounterInstance
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 interfaces and Layer 3 Ethernet 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.
Instance	sFlow instance ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
CollectorID	Collector ID	N/A	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID varies by device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
Interval	Counter sampling interval	N/A	Unsigned integer. Value range: 2 to 86400.	Counter sampling is disabled by default.

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XML structure	7
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XML structure	9
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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>
      <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.
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
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.

Column name	Column description	Column type	Data type and restrictions	Remarks
SamplingMode	SamplingMode of SFLOW	N/A	Unsigned integer. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none">• 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
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.

SFLOW/sFlowFlowInstance

This table contains sFlow flow instance configuration information.

XML structure

```
<SFLOW>
  <sFlowFlowInstance>
    <FlowInstance>
      <IfIndex></IfIndex>
      <Instance></Instance>
      <CollectorID></CollectorID>
      <PacketSamplingRate></PacketSamplingRate>
      <SamplingMode></SamplingMode>
      <MaxHeaderSize></MaxHeaderSize>
      <Status></Status>
    </FlowInstance>
  </sFlowFlowInstance>
</SFLOW>
```


Table description

Item	Description
Feature name	SFLOW
Table name	sFlowFlowInstance
Table type	Multi-instance table
Row name	FlowInstance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	<p>Layer 2 Ethernet interfaces and Layer 3 Ethernet interfaces are supported.</p> <p>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.</p>
Instance	sFlow instance ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
CollectorID	Collector ID	N/A	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID varies by device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
PacketSamplingRate	Flow sampling rate	N/A	Unsigned integer. Value range: MinSamplerRate to MaxSamplerRate.	The values of MinSamplerRate and MaxSamplerRate vary by device model.
SamplingMode	Flow sampling mode	N/A	Unsigned integer. <ul style="list-style-type: none"> 1—random. 2—determine. 	The default value of SamplingMode varies by 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. <ul style="list-style-type: none"> 0—Suspended. 1—Active. 	N/A

SFLOW/sFlowCounterInstance

This table contains sFlow counter instance configuration information.

XML structure

```

<SFLOW>
  <sFlowCounterInstance>
    <CounterInstance>
      <IfIndex></IfIndex>
      <Instance></Instance>
      <CollectorID></CollectorID>
      <Interval></Interval>      <Status></Status>
    </CounterInstance>
  </sFlowCounterInstance>
</SFLOW>

```

Table description

Item	Description
Feature name	SFLOW

Table name	sFlowCounterInstance
Table type	Multi-instance table
Row name	CounterInstance
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ifindex	Interface index	Index	Unsigned integer.	Layer 2 Ethernet interfaces and Layer 3 Ethernet 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.
Instance	sFlow instance ID	Index	Unsigned integer. Value range: 1 to 4.	N/A
CollectorID	Collector ID	N/A	Unsigned integer. Value range: 1 to MaxCollectorID.	The value of MaxCollectorID varies by device model.
Interval	Counter sampling interval	N/A	Unsigned integer. Value range: 2 to 86400.	Counter sampling is disabled by default.
Status	Status of sFlow	N/A	Unsigned integer. <ul style="list-style-type: none"> 0—Suspended. 1—Active. 	N/A

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SFLOW/sFlowCounterInstance	2
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SFLOW

SFLOW/sFlowCollector

Message	Explanation
Invalid IP address.	Invalid IP address, please modify configuration under guidance.
The value is out of range.	The value is out of range, please modify configuration under guidance.
Configuration items don't meet the requirements.	Configuration items don't meet the requirements, please modify configuration under guidance.
The same IP address already exists.	Same configuration has existed when creating a new configuration.
The same IPv6 address already exists.	Same configuration has existed when creating a new configuration.
Invalid IPv6 address.	Invalid configuration, please modify configuration under guidance.

SFLOW/sFlowFlowSampler

Message	Explanation
The value is out of range.	The value is out of range, please modify configuration under guidance.
The collector ID is already binded	The collector ID is already binded, please modify configuration under guidance.

SFLOW/sFlowCounterSampler

Message	Explanation
The value is out of range.	The value is out of range, please modify configuration under guidance.
The collector ID is already binded.	The collector ID is already binded, please modify configuration under guidance.

SFLOW/sFlowConfig

Message	Explanation
Invalid IP address.	Invalid IP address, please modify configuration under guidance.
Invalid IPv6 address.	Invalid IPv6 address, please modify configuration under guidance.

SFLOW/sFlowFlowInstance

Message	Explanation
The value is out of range.	The value is out of range, please modify configuration under guidance.
The collector ID is already binded	The collector ID is already binded, please modify configuration under guidance.

SFLOW/sFlowCounterInstance

Message	Explanation
The value is out of range.	The value is out of range, please modify configuration under guidance.
The collector ID is already binded	The collector ID is already binded, please modify configuration under guidance.

SFLOW/sFlowClearCollector

Message	Explanation
The value is out of range.	The value is out of range, please modify configuration under guidance.

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
ServiceType	Service type of the service loopback group	N/A	Unsigned integer. Default: 1.	<p>Required.</p> <p>You cannot change the service type of a service loopback group.</p> <p>You can configure only one service loopback group for a service type.</p> <p>A service loopback group supports one of the following services:</p> <ul style="list-style-type: none"> • 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

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XML structure	2
Table description	2
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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: <ul style="list-style-type: none">• 1—Tunnel service.• 2—Multicast tunnel service.• 3—Tunnel service and multicast tunnel service.

			<ul style="list-style-type: none"> • 4—Multiport service. • 8—VSI gateway service.
MemberList	Member list	N/A	<p>Bitmap. No length restrictions.</p> <p>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.</p>

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

- SLBG1
 - SLBG/Groups1
 - SLBG/Members.....1

SLBG

SLBG/Groups

Message	Explanation
A service loopback group of this type already exists. 该类型的业务环回组已经存在。	A system can only have a type of service group.
Can not modify service type of the service loopback group. 不允许修改业务环回组的业务类型。	The type of a service group can not be changed.

SLBG/Members

Message	Explanation
%s has been assigned to another service loopback group. %s已经加入其他业务环回组。	A interface can only assigned to a service group.
The service loopback group doesn't exist. 指定的业务环回组不存在。	The group the port assigned to does not exist.
The port can't be assigned to a service loopback group. 接口不能加入业务环回组。	The port can't be assigned to a service loopback group.
Failed to switch the port type. 切换接口类型失败。	Failed to switch the port type.

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- SmartMC 1
 - SmartMC/StartProgress 1
 - XML structure 1
 - Table description 1
 - Columns 1

SmartMC

SmartMC/StartProgress

This table contains SmartMC process information.

XML structure

```
<SmartMC>
  <StartProgress>
    <Role></Role>
    <Username></Username>
    <Password></Password>
  </StartProgress>
</SmartMC>
```

Table description

Item	Description
Feature name	SmartMC
Table name	StartProgress
Table type	Single-instance table
Row name	None
Restrictions	This table supports only global SmartMC functions.
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Role	Role of the SmartMC	N/A	String. Members include: <ul style="list-style-type: none">TM.TC.	N/A
Username	Local username	N/A	String, case-insensitive. Length: 1 to 55 characters.	Example: admin
Password	Password of the local user	N/A	String. Length: 1 to 63 characters.	Example: 123

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Table description	4
Columns	4

SmartMC

SmartMC/DeviceList

This table contains all member devices information.

XML structure

```
<SmartMC>
  <DeviceList>
    <Device>
      <MacAddress></MacAddress>
      <Id></Id>
      <Role></Role>
      <Status></Status>
      <HostName></HostName>
      <Model></Model>
      <Hop></Hop>
      <IpAddress></IpAddress>
      <SerialNumber></SerialNumber>
      <SysVersion></SysVersion>
      <IrfCount></IrfCount>
      <IsSnapshot></IsSnapshot>
    </Device>
  </DeviceList>
</SmartMC>
```

Table description

Item	Description
Feature name	SmartMC
Table name	DeviceList
Table type	Multi-instance table
Row name	Device
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Id	Member device ID	Index	Unsigned integer Value range: 0 to 255	

MacAddress	Device MAC	NA	NA	Example: 84d9-3196-75ec
Role	Device role	NA	Enumeration: • 1—manager • 2—member	
Status	Device status	NA	Enumeration: • 1—normal • 2—offline • 3—new	
HostName	Sysname	NA	String Length: 1 to 64 characters	
Model	Device model	NA	String Length: 1 to 32 characters	
Hop	Hop from member to manager	NA	Unsigned integer Value range: 0 to 255	
IpAddress	IP address of the device	NA	IpAddress IPv4: String, dotted decimal notation.	Example: 192.168.22.188
SerialNumber	Device serial number	NA	String Length: 1 to 64 characters	
SysVersion	System version	NA	String Length: 1 to 32 characters	
IrfCount	IRF member count	NA	Unsigned integer	
IsSnapshot	Save Topology	NA	Boolean: • true • false	

SmartMC/LinkRelation

This table contains the relation of devices.

XML structure

```

<SmartMC>
  <LinkRelation>
    <Relation>
      <SrcId></SrcId>
      <IfIndex></IfIndex>
      <SrcMAC></SrcMAC>
      <DesId></DesId>
      <DesMAC></DesMAC>
      <STPStatus></STPStatus>
    </Relation>
  </LinkRelation>
</SmartMC>

```



```

    <LinkStatus></LinkStatus>
  </Relation>
</LinkRelation>
</SmartMC>

```

Table description

Item	Description
Feature name	SmartMC
Table name	LinkRelation
Table type	Multi-instance table
Row name	Relation
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SrclId	Link source ID	Index	Unsigned integer. Value range: 0 to 255.	N/A
IfIndex	Interface index	Index	Unsigned integer.	N/A
DesId	Link destination ID	N/A	Unsigned integer. Value range: 0 to 255.	N/A
SrcMAC	Link source MAC	N/A	Source MAC address.	Example: 84d9-3196-75ec
DesMAC	Link destination MAC	N/A	Destination MAC address.	Example: 84d9-3196-75fc
STPStatus	STP block status	N/A	Boolean: <ul style="list-style-type: none"> true false 	
LinkStatus	Link status	N/A	Enumeration: <ul style="list-style-type: none"> 1—normal. 2—down. 3—new 	

SmartMC/StartProgress

This table contains SmartMC process information.

XML structure

```
<SmartMC>
```



```

<StartProgress>
  <Role></Role>
  <Username></Username>
</StartProgress>
</SmartMC>

```

Table description

Item	Description
Feature name	SmartMC
Table name	StartProgress
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Role	Role of the SmartMC	N/A	String. Members include: <ul style="list-style-type: none"> TM. TC. 	N/A
Username	Local username	N/A	String, case-insensitive. Length: 1 to 55 characters.	Example: admin

Contents

SmartMC 1

 SmartMC/StartProgress 1

SmartMC

SmartMC/StartProgress

Message	Explanation
Failed to configure the topology master.	Failed to configure the topology master.
Invalid Username or Password.	Invalid Username or Password.
The device is already configured as a topology master.	The device is already configured as a topology master.
Extra username or password.	Extra username or password.
Invalid role.	Invalid role.

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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: <ul style="list-style-type: none">truefalse	N/A

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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
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: <ul style="list-style-type: none">enabledisable	You must separately set AgentStatus to enable or disable SNMP.
V1	SNMP V1 status	N/A	Enumeration: <ul style="list-style-type: none">enabledisable 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	<ul style="list-style-type: none"> enable disable Default: disable.	N/A
Location	SNMP physical location information	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• true• false Default: false	N/A
SetLog	Logging status of set.	N/A	Boolean: <ul style="list-style-type: none">• true• false Default: false	N/A
NotificationLog	Logging status of notification.	N/A	Boolean: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• true• false Default: true	N/A
WarmStart	Status of SNMP warmStart notification.	N/A	Boolean: <ul style="list-style-type: none">• true• false Default: true	N/A
AuthenticationFailure	Status of SNMP authenticationFailure notification.	N/A	Boolean: <ul style="list-style-type: none">• 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	<p>The max number of tables depends on SNMP/Capabilities/MaxCommunities in data namespace.</p> <p>'Number' and 'Name' are two configuration ways.</p> <p>Only one way can take effect at the same time for both 'IPv4BasicACL', 'IPv4AdvancedACL', 'IPv6BasicACL' and 'IPv6AdvancedACL'.</p>
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: <ul style="list-style-type: none"> 0 – read-only (Default) 1 – read-write 2 – use-RBAC 	<p>If specified '2 - use-RBAC', then a 'Role' must be included together while 'MIBView' is meaningless.</p> <p>For the other enumerations, 'Role' is meaningless, and must not be included.</p>
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	<p>If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent.</p> <p>If the specified ACL does not have any rules, no NMS in this</p>

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.	<p>An NMS and an SNMP agent can communicate with each other if the following conditions exist:</p> <ul style="list-style-type: none"> 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	<p>The system creates the ViewDefault view when the SNMP agent is enabled.</p> <p>In this default MIB view, all MIB objects in the iso subtree but the snmpUsmMIB, snmpVacmMIB, and snmpModules.18 subtrees are accessible.</p> <p>The max number of tables depends on SNMP/Capabilities/MaxMIBViews in data namespace, including the 4 default MIB view records.</p> <p>After deleting, the default MIB view records will be restored after</p>

	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: <ul style="list-style-type: none"> 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	<p>The max number of tables depends on SNMP/Capabilities/MaxGroups in data namespace.</p> <p>'Number' and 'Name' are two configuration ways.</p> <p>Only one way can take effect at the same time for both 'IPv4BasicACL', 'IPv4AdvancedACL', 'IPv6BasicACL' and 'IPv6AdvancedACL'.</p>
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Group name.	Index	String. <ul style="list-style-type: none"> Length:1 to 32 characters. 	N/A
SecurityMode	The security model by this group is provided.	Index	Enumeration: <ul style="list-style-type: none"> 1 – v1 2 – v2c 3 – v3 	N/A
SecurityLevel	Security Level.	Index	Enumeration: <ul style="list-style-type: none"> 1 – noAuthNoPriv 	When 'SecurityMode' is '1 – v2' and '2 – v2c', the

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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	<p>The max number of tables depends on SNMP/Capabilities/MaxUsers in data namespace.</p> <p>'Group' and 'Role' are two configuration ways. Only one way can take effect at the same time.</p> <p>'Number' and 'Name' are two configuration ways. Only one way can take effect at the same time for both 'IPv4BasicACL', 'IPv4AdvancedACL', 'IPv6BasicACL' and 'IPv6AdvancedACL'.</p> <p>'Remote/Address' and ' Remote/VPN' only applicable when creating a row.</p>
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: <ul style="list-style-type: none"> 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.	<p>There are 2 ways to create a row:</p> <p>The first way is without engine ID for SNMPv3 local user or SNMPv1 and SNMPv2c user .</p> <p>In this way, the 'EngineId' and 'Address' and 'VRF' must be zero-length.</p> <p>The second way is using the engine ID of remote SNMP manage.</p> <p>In this way, the 'EngineId' must be zero-length, then both the Remote/Address and Remote/VPN in this row must be included.</p> <p>The number of characters must be even.</p> <p>All-zero and all-F strings are invalid.</p>
Address	Address of the remote manage.	index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated.	<p>Only for remote SNMP manage.</p> <p>IPv4 example: 1.1.1.1 IPv6 example: 1:2:3:4:5:6:7:8</p>
VRF	VRF instance name.	index	String. Length: 1 to 31 characters.	<p>Only for remote SNMP manage</p> <p>VRF must be zero-length if the remote manage is on the public network.</p>
GroupControl	Group control of this user.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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 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

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">enabledisable	N/A
V1	SNMP V1 status	N/A	Enumeration: <ul style="list-style-type: none">enabledisable	N/A
V2C	SNMP V2C status	N/A	Enumeration: <ul style="list-style-type: none">enable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
V3	SNMP V3 status	N/A	<ul style="list-style-type: none"> • disable Enumeration:	N/A
Location	SNMP physical location information	N/A	<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true • false 	N/A
SetLog	Logging status of set.	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	N/A
NotificationLog	Logging status of notification.	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> true false 	N/A
WarmStart	Status of SNMP warmStart notification.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
AuthenticationFailure	Status of SNMP authenticationFailure notification.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	<p>The max number of tables depends on SNMP/Capabilities/MaxCommunities.</p> <p>'Number' and 'Name' are two configuration ways.</p> <p>Only one way can take effect at the same time for both 'IPv4BasicACL', 'IPv4AdvancedACL', 'IPv6BasicACL' and 'IPv6AdvancedACL'.</p>

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: <ul style="list-style-type: none"> 0 – read-only 1 – read-write 2 – use-RBAC 	<p>If specified '2 - use-RBAC', then a 'Role' must be included together.</p> <p>For the other enumerations, 'Role' is meaningless, and must not be included.</p>
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.	<p>Applicable only when 'Type' is '0 – read-only' or '1 – read-write'.</p>
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	<ul style="list-style-type: none"> Number 	<p>the specified ACL does not exist, all NMSs in this community can access the SNMP agent.</p> <p>If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.</p>
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	<p>If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent.</p> <p>If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.</p>
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: <ul style="list-style-type: none"> Number 	<p>If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent.</p> <p>If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.</p>
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	<p>If no ACL is specified, or the specified ACL does not exist, all NMSs in this community can access the SNMP agent.</p> <p>If the specified ACL does not have any rules, no NMS in this community can access the SNMP agent.</p>
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.	<p>An NMS and an SNMP agent can communicate with each other if the following conditions exist:</p> <ul style="list-style-type: none"> 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	<p>The system creates the ViewDefault view when the SNMP agent is enabled.</p> <p>In this default MIB view, all MIB objects in the iso subtree but the snmpUsmMIB, snmpVacmMIB, and snmpModules.18 subtrees are accessible.</p> <p>The max number of tables depends on SNMP/Capabilities/MaxMIBViews, including the 4 default MIB view records.</p> <p>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.</p>

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	<p>The max number of tables depends on SNMP/Capabilities/MaxGroups.</p> <p>'Number' and 'Name' are two configuration ways.</p> <p>Only one way can take effect at the same time for both 'IPv4BasicACL', 'IPv4AdvancedACL', 'IPv6BasicACL' and 'IPv6AdvancedACL'.</p>

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: <ul style="list-style-type: none"> 1 – v1 2 – v2c 3 – v3 	N/A
SecurityLevel	Security Level.	Index	Enumeration: <ul style="list-style-type: none"> 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	<p>The max number of tables depends on SNMP/Capabilities/MaxUsers.</p> <p>'Group' and 'Role' are two configuration ways. Only one way can take effect at the same time.</p> <p>'Number' and 'Name' are two configuration ways. Only one way can take effect at the same time for both 'IPv4BasicACL', 'IPv4AdvancedACL', 'IPv6BasicACL' and 'IPv6AdvancedACL'.</p>

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SecurityMode	The security model by this user is provided.	Index	Enumeration: <ul style="list-style-type: none"> 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.	<p>There are 2 ways to create a row:</p> <p>The first way is without engine ID for SNMPv3 local user or SNMPv1 and SNMPv2c user .</p> <p>In this way, the 'EngineId'and 'Adress'and 'VRF'must be zero-length.</p> <p>The second way is using</p>

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.		<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
    <InReadOnlys></InReadOnlys>
    <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
	PDU's which have been generated by the SNMP protocol entity.			
OutGetResponses	The total number of SNMP Get-Response PDU's which have been generated by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
OutTraps	The total number of SNMP Trap PDU's which have been generated by the SNMP protocol entity.	N/A	Unsigned integer.	N/A
SilentDrops	The total number of Confirmed Class PDU's (such as GetRequest-PDU's, GetNextRequest-PDU's, GetBulkRequest-PDU's, SetRequest-PDU's, and InformRequest-PDU's) 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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SNMP

SNMP/System

Message	Explanation
Operation failed. Please separately set the AgentStatus column to Enable in the System table.	Enable snmp first.
Operation failed. Please separately set the AgentStatus column to Disable in the System table.	Disable snmp first.

SNMP/Agent

Message	Explanation
The number of hexadecimal characters must be even for an engine ID.	Engine ID set failed.
The engine ID can't be all 0s or all Fs.	Engine ID set failed.
Operation failed. Please separately set the AgentStatus column to Enable in the System table.	Enable snmp first.

SNMP/Notification

Message	Explanation
The interface has no IP address now. Please configure an IP address for the interface first.	Set the interface for trap succeed, but the interface has no IP address now.
Operation failed. Please separately set the AgentStatus column to Enable in the System table.	Enable snmp first.

SNMP/Communities

Message	Explanation
Column Role can't be deleted for RBAC-based SNMP communities.	'Delete' operation failed.
Column Role must be specified for RBAC-based SNMP communities.	SNMP communities of VACM convert to RBAC-based failed. Please specify 'Role'.
When community type is read-only or read-write, column Role is invalid and can't be configured.	Column 'Role' is invalid for communities of VACM.
When community type is user-RBAC, column MIBView is invalid and can't be configured.	Column 'MIBView' is invalid for communities of RBAC.
Operation failed. The number of communities reached the upper limit.	Create community failed.
IPv4BasicACL and IPv4AdvancedACL can't be	Create or replace community failed.

configured together.	
IPv6BasicACL and IPv6AdvancedACL can't be configured together	Create or replace community failed.
Operation failed. Please separately set the AgentStatus column to Enable in the System table.	Enable snmp first.

SNMP/Contexts

Message	Explanation
Operation failed. The number of contexts reached the upper limit.	Failed to create context.
Operation failed. Please separately set the AgentStatus column to Enable in the System table.	Enable snmp first.

SNMP/CommunityMappings

Message	Explanation
Column Context can't be deleted.	Can't delete the default context.
Operation failed. The number of maps reached the upper limit.	Create community map failed.
Value for column Context must be specified.	Create community map failed.
Operation failed. Please separately set the AgentStatus column to Enable in the System table.	Enable snmp first.

SNMP/MIBViews

Message	Explanation
Value for column Type must be specified.	MIB view type must be specified.
Operation failed. The number of user-defined MIB views reached the upper limit.	Failed to create MIB-view.
Invalid MIB sub-tree node name or OID.	Please specify 'SubTree' value in the message.
The number of hexadecimal characters must be even for a subtree mask.	Failed to set MIB subtree mask.
Operation failed. Please separately set the AgentStatus column to Enable in the System table.	Enable snmp first.

SNMP/Groups

Message	Explanation
Security model of an SNMPv1 or SNMPv2c group can only be noAuthNoPriv.	Failed to set 'SecurityLevel'. Please set 'SecurityLevel' to 2.

Operation failed.The number of groups reached the upper limit.	Create group failed.
Columns Role and Mibviews can't be configured together.	Create group failed.
Operation failed. Please separately set the AgentStatus column to Enable in the System table.	Enable snmp first.

SNMP/Users

Message	Explanation
The engine ID can't be all 0s or all Fs.	Invalid engine ID.
Operation failed.The number of users reached the upper limit.	Failed create new user.
Can't find the remote engine ID specified by the IP address.	Failed to get, merge, replace or delete the remote engine.
The last user role can't be deleted.	The last user role can't be deleted.
Operation failed. The number of user role reached the upper limit.	Failed to add new user role.
Value for column Group or Role must be specified.	Parameters not complete in the message
Values for columns AuthProtocol and AuthKey must be specified together.	'AuthProtocol' and 'AuthKey' must be specified together or not together.
Values for columns PrivProtocol and PrivKey must be specified together.	'PrivProtocol' and 'PrivKey' must be specified together or not together.
When columns PrivProtocol and PrivKey are issued, columns AuthProtocol and AuthKey must be issued too.	'AuthProtocol' and 'AuthKey', 'PrivProtocol' and 'PrivKey' must be specified together or not together.
Column Group or Role can't be deleted.	Group control doesn't support delete operation.
The engine ID mismatch the remote SNMP entity.	The engine ID mismatch with 'VPN name' and 'Address'.
Invalid user.	The engine ID mismatch with 'VPN name' and 'Address'.
Value for column Group must be specified.	Group must be specified in 'create' and 'replace' operation.
Column Group can't be deleted.	Users of SNMPv1 and SNMPv2c can't delete group column.
EngineID, IP address and VRF are invalid for an SNMPv1 or SNMPv2c user.	SNMPv1 or SNMPv2c user doesn't need 'EngineID', 'IP address' and 'VRF'.
User role, authentication and privacy are all invalid for an SNMPv1 or SNMPv2c user.	'User role', 'authentication' and 'privacy' are valid for SNMPv3 user.
One user only support one Group.	One user only support one Group.
Values for columns AuthProtocol and AuthKey must be deleted together.	'AuthProtocol' and 'AuthKey' can't be deleted separately.
Values for columns PrivProtocol and PrivKey must be deleted together.	'PrivProtocol' and 'PrivKey' can't be deleted separately.
When columns AuthProtocol and AuthKey are deleted, PrivProtocol and PrivKey columns must be deleted too.	'AuthProtocol', 'AuthKey' and 'PrivProtocol', 'PrivKey' can't be deleted separately.
Values for indexs Engineid or Address must be assigned for an SNMPv3 remote user.	Please specify 'Engineid' and 'Address' for SNMPv3 remote users.

The shared key must contain uppercase letters, lowercase letters, digits, and symbols.	Set key for user of SNMPv3 failed.
The shared key must contain at least 15 characters.	Set key for user of SNMPv3 failed.
Only users with the network-admin user role can configure SNMPv3 features.	Set SNMPv3 feature failed.
Value for index Address must be assigned for an SNMPv3 remote user.	Value for index Address must be assigned for an SNMPv3 remote user.
Operation failed. Please separately set the AgentStatus column to Enable in the System table.	Enable snmp first.

SNMP/RemoteManages

Message	Explanation
Operation failed. The number of configured remote engines reached the upper limit.	Failed to set new remote engine.
Invalid IP address for the remote SNMP entity.	Failed to set new remote engine or delete remote engine.
When Column VPN is issued, Column Address must be issued too.	'VPN' and 'Address' must be specified together or not together.
Column Address or Column VPN can't be changed.	'VPN' and 'Address' can't be changed.
Column Address or VPN can't be deleted. Address或者VPN列不能被删除。	'VPN' and 'Address' can't be deleted.
Value for column EngineId must be specified. 必须指定引擎ID。	Please specify the engine ID.
Column EngineId can't be deleted. 引擎ID列不能删除。	Can't delete the default engine ID.
Operation failed. Please separately set the AgentStatus column to Enable in the System table.	Enable snmp first.

SNMP/TargetHosts

Message	Explanation
Value for column SecurityMode must be specified.	The security model is used when generating SNMP notifications.
Operation failed. The number of specified target hosts reached the upper limit.	Failed to create target host.
Invalid IP address for an SNMP target host.	Invalid IP address in message.
Column SecurityMode can't be deleted.	Please specify the security model to be deleted.
An SNMPv1 or SNMPv2c targethost can only receive notifications as traps.	An SNMPv1 or SNMPv2c targethost can't receive notifications as inform.
Invalid target host IP address.	Please confirm the IP address of the target host.
Invalid host name.	Please confirm the valid host name.
Column AddressType can't be deleted.	'AddressType' shows address is host name or IPv4, IPv6

	address. 'AddressType' can't be deleted.
Value for column AddressType must be specified.	'AddressType' must be specified for replace operation.
Operation failed. Please separately set the AgentStatus column to Enable in the System table.	Enable snmp first.

SNMP/Statistics

Message	Explanation
Operation failed. Please separately set the AgentStatus column to Enable in the System table.	Enable snmp first.

SNMP/NotificationStatus

Message	Explanation
Operation failed. Please separately set the AgentStatus column to Enable in the System table.	Enable snmp first.

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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>
    <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 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: <ul style="list-style-type: none"> true—Enables STelnet Server. false—Disables STelnet Server(default).
SFTPState	Global SFTP Server feature	N/A	Boolean: <ul style="list-style-type: none"> true—Enables SFTP Server. false—Disables SFTP Server(default).
SCPState	Global SCP Server feature	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enables SSH Server compatible ssh1x (default). false—Disables SSH Server compatible ssh1x.

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 - Table description 2
 - Columns 2

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: <ul style="list-style-type: none">truefalse
RekeyIntervalSupport	Whether the SSH server key rekey-interval is supported.	N/A	Boolean: <ul style="list-style-type: none">truefalse

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: <ul style="list-style-type: none">true—Enables STelnet Server.false—Disables STelnet Server(default).
SFTPState	Global SFTP Server feature	N/A	Boolean: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enables SSH Server compatible ssh1x (default). false—Disables SSH Server compatible ssh1x.

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SSH/Server 1

SSH

SSH/Server

Message	Explanation
There is the same configuration, failed to create. 存在相同配置无法创建。	If the current operation type is “create”, it does not support the existing configuration to be created again.
SSH Listens on port failed to open. SSH侦听端口使能失败	When the SSH service port number has been used by other services, it does not support to enable SSH server.
Failed to connect the SSH process. 连接SSH进程失败	If the daemon of SSH failed to connect, it will prompt this information.
The existence of default configuration, failed to delete. 删除时已经是默认配置	If the current operation type is “delete”, it does not support the default configuration to be deleted.

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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	Name of the SSL client policy	Index	String, case insensitive. Length: 1 to 31 characters. Case insensitive	N/A
SSLVersion	SSL protocol version of the SSL client	N/A	Enumeration: <ul style="list-style-type: none">1—TSL 1.02—SSL 3.03—TSL 1.1	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			4 —TSL 1.2 Default value is TSL 1.0	
PKIDomain	Specify a PKI domain for the SSL client policy	N/A	String, case insensitive. Length: 1 to 31 characters. Case insensitive	N/A
PerferCipherList	Preferred cipher suite list for the SSL client policy	Data structure	Members include: <ul style="list-style-type: none"> CipherItem. 	N/A
CipherItem	Cipher suite ID	N/A	Unsigned integer. Value range: 1 to 23. The cipher suite ID is defined by SSLCapabilities table.	A maximum of one CipherItem can be specified in PerferCipherList.
ServerVerify	Whether to verify the SSL server	N/A	Boolean: <ul style="list-style-type: none"> true—Verify the SSL server (default). false—Don't verify the SSL server. 	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>
      <SSLVersionControl>
        <SSL3Enabled></SSL3Enabled>
        <TLS1Dot0Enabled></TLS1Dot0Enabled>
        <TLS1Dot1Enabled></TLS1Dot1Enabled>
        <TLS1Dot2Enabled></TLS1Dot2Enabled>
      </SSLVersionControl>
    </Policy>
  </ServerPolicies>
</SSL>

```


Table description

Item	Description
Feature name	SSL
Table name	ServerPolicies
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 SSL server policy	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
SessionCacheSize	Maximum number of cached sessions	N/A	Unsigned integer. Value range: 100 to 20480 Default value is 500	N/A
SessionTimeout	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, case insensitive. Length: 1 to 31 characters.	N/A
CipherSuiteList	Cipher suite list for the SSL server policy	Data structure	Members include: <ul style="list-style-type: none"> CipherItem. 	N/A
CipherItem	Cipher suite ID	N/A	Unsigned integer. Value range: 1 to 23. The cipher suite ID is defined by SSLCapabilities table.	A maximum of 11 CipherItems can be specified in CipherSuiteList. Default: All cipher suites are supported.
ClientVerify	Whether to verify the SSL client	N/A	Boolean: <ul style="list-style-type: none"> true—Verify the SSL client. false—Don't verify the SSL client (default). 	N/A
ClientVerifyMode	Client authentication mode	N/A	Unsigned integer. <ul style="list-style-type: none"> 0—SSL client authentication is disabled. 1—Mandatory SSL client authentication . 2—Optional SSL client 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			authentication.	
SSLVersionControl	SSL version control	Data structure	Members include: <ul style="list-style-type: none"> • SSL3Enabled • TLS1Dot0Enabled • TLS1Dot1Enabled • TLS1Dot2Enabled 	N/A
SSL3Enabled	Enable SSL3.0	N/A	Boolean: <ul style="list-style-type: none"> • true—Enable(default). • false—Disable. 	N/A
TLS1Dot0Enabled	Enable TLS1.0	N/A	Boolean: <ul style="list-style-type: none"> • true—Enable(default). • false—Disable. 	N/A
TLS1Dot1Enabled	Enable TLS1.1	N/A	Boolean: <ul style="list-style-type: none"> • true—Enable(default). • false—Disable. 	N/A
TLS1Dot2Enabled	Enable TLS1.2	N/A	Boolean: <ul style="list-style-type: none"> • true—Enable(default). • false—Disable. 	N/A

SSL/SSLGlobalConfig

This table is used to operate SSL global config.

XML structure

```

<SSL>
  <SSLGlobalConfig>
    <SSL3Enabled></SSL3Enabled>
    <RenegotiationEnabled></RenegotiationEnabled>
    <TLS1Dot0Enabled></TLS1Dot0Enabled>
    <TLS1Dot1Enabled></TLS1Dot1Enabled>
    <TLS1Dot2Enabled></TLS1Dot2Enabled>
  </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: <ul style="list-style-type: none"> true—Enable(default). false—Disable.
RenegotiationEnabled	Enable SSL renegotiation.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable(default). false—Disable.
TLS1Dot0Enabled	Enable TLS1.0	N/A	Boolean: <ul style="list-style-type: none"> true—Enable(default). false—Disable.
TLS1Dot1Enabled	Enable TLS1.1	N/A	Boolean: <ul style="list-style-type: none"> true—Enable(default). false—Disable.
TLS1Dot2Enabled	Enable TLS1.2	N/A	Boolean: <ul style="list-style-type: none"> true—Enable(default). false—Disable.

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Table description.....	5
Columns.....	6

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	Name of the SSL client policy	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
SSLVersion	SSL protocol version of the SSL client	N/A	Enumeration: <ul style="list-style-type: none">1—TLS 1.02—SSL 3.03—TLS 1.14—TLS 1.2	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, case insensitive. Length: 1 to 31 characters.	N/A
PerferCipherList	Preferred cipher suite list for the SSL client policy	Data structure	Members include: <ul style="list-style-type: none"> CipherItem. 	N/A
CipherItem	Cipher suite ID	N/A	Unsigned integer. Value range: 1 to 23. The cipher suite ID is defined by SSLCapabilities table.	A maximum of one CipherItem can be specified in PerferCipherList.
ServerVerify	Whether to verify the SSL server	N/A	Boolean: <ul style="list-style-type: none"> true—Verify the SSL server. false—Don't verify the SSL server. 	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>
      <SSLVersionControl>
        <SSL3Enabled></SSL3Enabled>
        <TLS1Dot0Enabled></TLS1Dot0Enabled>
        <TLS1Dot1Enabled></TLS1Dot1Enabled>
        <TLS1Dot2Enabled></TLS1Dot2Enabled>
      </SSLVersionControl>
    </Policy>
  </ServerPolicies>
</SSL>

```


Table description

Item	Description
Feature name	SSL
Table name	ServerPolicies
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 SSL server policy	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
SessionCacheSize	Maximum number of cached sessions	N/A	Unsigned integer. Value range: 100 to 20480	N/A
SessionTimeout	Session timeout value	N/A	Unsigned integer. Value range: 0 to 86400	N/A
PKIDomain	Specify a PKI domain for the SSL server policy	N/A	String, case insensitive. Length: 1 to 31 characters.	N/A
CipherSuiteList	Cipher suite list for the SSL server policy	Data structure	Members include: <ul style="list-style-type: none"> CipherItem. 	N/A
CipherItem	Cipher suite ID	N/A	Unsigned integer. Value range: 1 to 23. The cipher suite ID is defined by SSLCapabilities table.	A maximum of 11 CipherItems can be specified in CipherSuiteList.
ClientVerify	Whether to verify the SSL client	N/A	Boolean: <ul style="list-style-type: none"> true—Verify the SSL client. false—Don't verify the SSL client 	N/A
ClientVerifyMode	Client authentication mode	N/A	Unsigned integer. <ul style="list-style-type: none"> 0—SSL client authentication is disabled. 1—Mandatory SSL client authentication . 2—Optional SSL client authentication. 	N/A
SSLVersionControl	SSL version control	Data structure	Members include: <ul style="list-style-type: none"> SSL3Enabled TLS1Dot0Enabled 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> TLS1Dot1Enabled TLS1Dot2Enabled 	
SSL3Enabled	Enabling status of SSL3.0	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
TLS1Dot0Enabled	Enabling status of TLS1.0	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
TLS1Dot1Enabled	Enabling status of TLS1.1	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
TLS1Dot2Enabled	Enabling status of TLS1.2	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	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 stong.
IsDefaultCipherSuite	If the algorithm is default cipher suite.	N/A	Boolean: <ul style="list-style-type: none">true—The algorithm is the defaultfalse—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>
    <TLS1Dot0Enabled></TLS1Dot0Enabled>
    <TLS1Dot1Enabled></TLS1Dot1Enabled>
    <TLS1Dot2Enabled></TLS1Dot2Enabled>
  </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: <ul style="list-style-type: none"> true—Enable. false—Disable.
RenegotiationEnabled	Enable SSL renegotiation.	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
TLS1Dot0Enabled	Enable TLS1.0	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
TLS1Dot1Enabled	Enable TLS1.1	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.
TLS1Dot2Enabled	Enable TLS1.2	N/A	Boolean: <ul style="list-style-type: none"> true—Enable. false—Disable.

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Comware 7 SSL NETCONF XML API Error Message Reference

SSL/SSLGlobalConfig

Message	Explanation
Can't disable all SSL protocol versions.	An SSL server use at least one SSL protocol version.

SSL/ServerPolicies

Message	Explanation
Can't disable all SSL protocol versions.	An SSL server use at least one SSL protocol version.

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XML structure.....	5
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Columns	6

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 is used to log out all SSL VPN users.

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.

SSLVPN/GlobalCustoms

This table is used to customize SSL VPN user access clients.

XML structure

```
<SSLVPN>
```



```

<GlobalCustoms>
  <GlobalCustom>
    <IPClientName></IPClientName>
  </GlobalCustom>
</GlobalCustoms>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	GlobalCustoms
Table type	Multi-instance table
Row name	GlobalCustom
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPClientName	Name of the custom IP access client	Column	String, case insensitive. Length: 0 to 63 characters. The string cannot contain colons (:), question marks (?), asterisks (*), angle brackets (< >), ditto marks ("), slashes (/), backslashes (\), vertical bars ().	When the string length is 0, this column deletes the custom IP access client.

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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
<AADomain></AADomain>
<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: <ul style="list-style-type: none"> Name. AccessType. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.		<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
    <PacketDropLog></PacketDropLog>
    <IPClientAutoActive></IPClientAutoActive>
    <WebResourceAutoPush></WebResourceAutoPush>
    <RateLimitUp>
        <Unit></Unit>
        <Value></Value>
    </RateLimitUp>
    <RateLimitDown>
        <Unit></Unit>
        <Value></Value>
    </RateLimitDown>
</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	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	Enabling status of IP access connection close logging.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). 	N/A
PacketDropLog	Enabling status of packet drop logging.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). 	N/A
IPClientAutomatic	Enabling status of automatic startup of the IP access client after Web login.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). 	N/A
WebResourceAutoPush	Enabling status of automatic	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	pushing of accessible resources through Web after IP access client login.		<ul style="list-style-type: none"> false—Disabled (default). 	
RateLimitUp	Upstream rate limit	Data structure	Members include: <ul style="list-style-type: none"> Unit. Value. 	“Unit” and “value” must both be configured.
Unit	Unit for the rate limit	N/A	Enumeration: <ul style="list-style-type: none"> 1—kbps 2—pps 	N/A
Value	Rate limit value	N/A	Unsigned integer. Value range: 1000 to 100000000.	N/A
RateLimitDown	Downstream rate limit	Data structure	Members include: <ul style="list-style-type: none"> Unit. Value. 	“Unit” and “value” must both be configured.
Unit	Unit for the rate limit	N/A	Enumeration: <ul style="list-style-type: none"> 1—kbps 2—pps 	N/A
Value	Rate limit value	N/A	Unsigned integer. Value range: 1000 to 100000000.	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>
      <HidePasswordInput></HidePasswordInput>
      <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
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: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default).
DPWD	Whether the dynamic password is enabled	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default).
DisplayLogo	Whether the logo is displayed	N/A	Boolean: <ul style="list-style-type: none"> true—Displayed (default). false—Not displayed.
HidePasswordInput	Whether to hide the password input box	N/A	Boolean: <ul style="list-style-type: none"> true—Hide the password box. false—Not hide the password box (default).
LogoFile	Logo file path	N/A	String, case insensitive.

Column name	Column description	Column type	Data type and restrictions
			Length: 1 to 255 characters.
LoginMsg	Web login message	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default).
ResourcerLog	Whether Resource logging of the SSL VPN context is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default).
Filter	Whether resource access log filtering is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default).
Brief	Whether brief logging for resource access is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default).
UserLog	Whether user logging of the SSL VPN context is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default).
PasswordAuthen	Whether password authentication of the SSL VPN context is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled(default). false—Disabled.
AuthenUse	The authentication methods required for user login.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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>
      <Ipv4AclNumber></Ipv4AclNumber>
      <Ipv6AclNumber></Ipv6AclNumber>
    </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 (_).
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.

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>
      <Ipv4AclNumber></Ipv4AclNumber>
      <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> RouteType. RouteList. Ipv4Address. Ipv4PrefixLength. 	N/A
RouteType	The way how the route is specified	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <Ipv4AddressPool>
        <Name></Name>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4AddressPool>
      <Ipv4AclNumber></Ipv4AclNumber>
      <Ipv6AclNumber></Ipv6AclNumber>
      <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 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
Ipv4AddressPool	Referenced address pool	Data structure	Members include: <ul style="list-style-type: none"> Name. Ipv4PrefixLength. 	N/A
Name	SSL VPN IPv4 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
Ipv4AclNumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	N/A
Ipv6AclNumber	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: <ul style="list-style-type: none"> RouteType. RouteList. Ipv4Address. Ipv4PrefixLength. 	N/A
RouteType	The way how the route is specified	N/A	Enumeration: <ul style="list-style-type: none"> 1—Route list. 2—IPv4 address. 	N/A
ForceAll	Whether the force all is enabled	N/A	Boolean: <ul style="list-style-type: none"> false—Enabled. true—Disabled. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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. <ul style="list-style-type: none">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 configuration information for policy groups.

XML structure

```
<SSLVPN>
  <WebAcPolicys>
    <WebAcPolicy>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <Ipv4AclNumber></Ipv4AclNumber>
      <Ipv6AclNumber></Ipv6AclNumber>
      <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. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	
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.	
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>
```


</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/UrlCtxItems

This table contains SSL VPN URL item configuration information.

XML structure

```
<SSLVPN>
  <UrlCtxItems>
    <UrlCtxItem>
      <ContextName></ContextName>
```



```

<ItemName></ItemName>
<UrlMapping>
  <MappingType></MappingType>
  <Domain></Domain>
  <GatewayName></GatewayName>
  <VirtualHost></VirtualHost>
  <Rewrite></Rewrite>
</UrlMapping>
<UrlValue></UrlValue>
<URIACLName></URIACLName>
</UrlCtxItem>
</UrlCtxItems>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlCtxItems
Table type	Multi-instance table
Row name	UrlCtxItem
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
ItemName	URL item name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
UrlMapping	URL mapping	Data structure	Members include: <ul style="list-style-type: none"> MappingType. Domain. GatewayName. VirtualHost. Rewrite. 	N/A
MappingType	URL mapping type	N/A	Enumeration: <ul style="list-style-type: none"> 1—domain mapping. 2—port mapping. 	N/A
Domain	Domain name	N/A	String, case insensitive.	N/A

	specified for the domain mapping		Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	
GatewayName	Gateway name specified for the port mapping	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
VirtualHost	Virtual host name 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
Rewrite	Whether absolute URL rewriting is enabled	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled (default). 	N/A
UrlValue	URL string	N/A	String, case insensitive. Length: 1 to 253 characters.	N/A
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/UrlItemResources

This table contains SSL VPN URL item resource configuration information.

XML structure

```

<SSLVPN>
  <UrlItemResources>
    <UrlItemResource>
      <ContextName></ContextName>
      <UrlListName></UrlListName>
      <ItemName></ItemName>
    </UrlItemResource>
  </UrlItemResources>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlItemResources

Item	Description
Table type	Multi-instance table
Row name	UrlItemResource
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
UrlListName	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 ?.	N/A
ItemName	URL item name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

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 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 ?.
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: <ul style="list-style-type: none">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
GlobalLogEnabled	Whether the global log is enabled	N/A	Boolean: <ul style="list-style-type: none">true—Enabled.false—Disabled (default).	N/A

SSLVPN/PortForwardCtxItems

This table contains SSL VPN port forwarding items control configuration information.

XML structure

```
<SSLVPN>
  <PortForwardCtxItems>
    <PortForwardCtxItem>
      <ContextName></ContextName>
      <ItemName></ItemName>
      <LocalPortNumber></LocalPortNumber>
      <LocalName></LocalName>
      <RemoteServer></RemoteServer>
      <RemotePortNumber></RemotePortNumber>
      <Description></Description>
      <Execution></Execution>
    </PortForwardCtxItem>
  </PortForwardCtxItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	PortForwardCtxItems
Table type	Multi-instance table
Row name	PortForwardCtxItem
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 (_).
ItemName	Port forwarding item 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	N/A	Unsigned integer. Value range: 1 to 65535.
LocalName	Domain name of the local 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 (.).
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.
Execution	Configure the script to execute for the port forwarding item	N/A	String, case insensitive. Length: 1 to 255 characters.

SSLVPN/PortForwardItemResources

This table contains SSL VPN port forwarding item resource configuration information.

XML structure

```

<SSLVPN>
  <PortForwardItemResources>
    <PortForwardItemResource>
      <ContextName></ContextName>
      <PortForwardName></PortForwardName>
      <ItemName></ItemName>
    </PortForwardItemResource>
  </PortForwardItemResources>
</SSLVPN>

```



```

    </PortForwardItemResource>
  </PortForwardItemResources>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	PortForwardItemResource
Table type	Multi-instance table
Row name	PortForwardItemResourc
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 (_).
PortForwardName	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 ?.
ItemName	Port forwarding item name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/Shortcuts

This table contains SSL VPN short cut configuration information.

XML structure

```

<SSLVPN>
  <Shortcuts>
    <Shortcut>
      <ContextName></ContextName>
      <ShortcutName></ShortcutName>
      <Description></Description>
    </Shortcut>
  </Shortcuts>
</SSLVPN>

```



```

        <Execution></Execution>
    </Shortcut>
</Shortcuts>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	Shortcuts
Table type	Multi-instance table
Row name	Shortcut
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 (_).
ShortcutName	SSL VPN short cut name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
Description	Description for the port forwarding entry	N/A	String. Length: 1 to 63 characters.
Execution	Configure the script to execute for the shortcut	N/A	String, case insensitive. Length: 1 to 255 characters.

SSLVPN/ShortcutLists

This table contains SSL VPN short cut list configuration information.

XML structure

```

<SSLVPN>
  <ShortcutLists>
    <ShortcutList>

```



```

    <ContextName></ContextName>
    <ShortcutListName></ShortcutListName>
  </ShortcutList>
</ShortcutLists>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	ShortcutLists
Table type	Multi-instance table
Row name	ShortcutList
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 (_).
ShortcutListName	SSL VPN shortcut list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/ShortcutResources

This table contains SSL VPN short cut list resource configuration information.

XML structure

```

<SSLVPN>
  <ShortcutResources>
    <ShortcutResource>
      <ContextName></ContextName>
      <ShortcutListName></ShortcutListName>
      <ShortcutName></ShortcutName>
    </ShortcutResource>
  </ShortcutResources>

```


</SSLVPN>

Table description

Item	Description
Feature name	SSLVPN
Table name	ShortcutRefers
Table type	Multi-instance table
Row name	ShortcutRefer
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 (_).
ShortcutListName	SSL VPN short cut list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
ShortcutName	SSL VPN short cut name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/ShortcutPolicys

This table contains SSL VPN short cut information for policy groups.

XML structure

```
<SSLVPN>
  <ShortcutPolicys>
    <ShortcutPolicy>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <ShortcutListName></ShortcutListName>
    </ShortcutPolicy>
  </ShortcutPolicys>
</SSLVPN>
```


</SSLVPN>

Table description

Item	Description
Feature name	SSLVPN
Table name	ShortcutPolicys
Table type	Multi-instance table
Row name	ShortcutPolicy
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 ?.
ShortcutListName	SSL VPN shortcut list name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/Users

This table contains SSL VPN user bind address information.

XML structure

```
<SSLVPN>
  <Users>
    <User>
      <ContextName></ContextName>
      <UserName></UserName>
      <BindAddress></BindAddress>
      <AutoBindAddressNum></AutoBindAddressNum>
    </User>
  </Users>
</SSLVPN>
```



```
</Users>  
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Users
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
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	SSLVPN user name	Index	String, case insensitive. Length: 1 to 63 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
BindAddress	IP address list	N/A	String, dotted decimal notation.	Example: 10.1.1.5,10.1.1.10-10.1.1.20
AutoBindAddressNum	Automatically allocate available IP addresses to the user	N/A	Unsigned integer. Value range: 1 to 10	This column is not displayed by the GET operation

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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
OperStatus	SSL VPN gateway operation status	N/A	Enumeration: <ul style="list-style-type: none"> 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>
    <AAADomain></AAADomain>
    <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <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 minutes.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.
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	N/A	String:	If the IMC server is on

Column name	Column description	Column type	Data type and restrictions	Remarks
	instance associated with the IMC server		Length: 0 to 31 characters.	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
OperStatus	SSL VPN context operation status	N/A	Enumeration: <ul style="list-style-type: none"> 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>
      <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: <ul style="list-style-type: none">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>
  <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	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
AcclIndex	Index of the referenced SSL VPN access interface	N/A	Unsigned integer.	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
Ipv4AddressPool	Referenced address pool	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	Enabling status of IP access connection close logging.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
PacketDropLog	Enabling status of packet drop logging.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
IPClientAutomatic	Enabling status of automatic startup of the IP access client after Web login.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
WebResourceAutoPush	Enabling status of automatic	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	pushing of accessible resources through Web after IP access client login.		<ul style="list-style-type: none"> false—Disabled. 	
RateLimitUp	Upstream rate limit	Data structure	Members include: <ul style="list-style-type: none"> Unit. Value. 	N/A
Unit	Unit for the rate limit	N/A	Enumeration: <ul style="list-style-type: none"> 1—kbps 2—pps 	N/A
Value	Rate limit value	N/A	Unsigned integer. Value range: 1000 to 100000000.	N/A
RateLimitDown	Downstream rate limit	Data structure	Members include: <ul style="list-style-type: none"> Unit. Value. 	N/A
Unit	Unit for the rate limit	N/A	Enumeration: <ul style="list-style-type: none"> 1—kbps 2—pps 	N/A
Value	Rate limit value	N/A	Unsigned integer. Value range: 1000 to 100000000.	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>
      <HidePasswordInput></HidePasswordInput>
      <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 (_).
VerifyCode	Whether the verify code is enabled	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
DPWD	Whether the dynamic password is enabled	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
DisplayLogo	Whether the logo is displayed	N/A	Boolean: <ul style="list-style-type: none"> true—Displayed. false—Not displayed.
HidePasswor dInput	Whether to hide the password input box	N/A	Boolean: <ul style="list-style-type: none"> true—Hide the password box. false—Not hide the password box (default).
LogoFile	Logo file path	N/A	String, case insensitive. Length: 1 to 255 characters.
LoginMsg	Web login	Data	Members include:

Column name	Column description	Column type	Data type and restrictions
	message	structure	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.
ResourcerLog	Whether Resource logging of the SSL VPN context is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
Filter	Whether resource access log filtering is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
Brief	Whether brief logging for resource access is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
CertificateAuthen	Whether certificate authentication of the SSL VPN context is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
UserLog	Whether user logging of the SSL VPN context is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
PasswordAuthen	Whether password authentication of the SSL VPN context is enabled.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
AuthenUse	The authentication methods required for user login.	N/A	Enumeration: <ul style="list-style-type: none"> 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 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 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 (.).
RemoteServe	Domain name of	N/A	String, case insensitive.

Column name	Column description	Column type	Data type and restrictions
r	the remote server		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	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			are \t \r \n ?.	
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	Index	String, case insensitive.

Column name	Column description	Column type	Data type and restrictions
	list name		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.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 1—Include. 	
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	Index	String, case insensitive.

Column name	Column description	Column type	Data type and restrictions
	name		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: <ul style="list-style-type: none"> 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>
      <Ipv4AclNumber></Ipv4AclNumber>
      <Ipv6AclNumber></Ipv6AclNumber>
    </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 (_).
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.

SSLVPN/IpAcPolicys

This table contains SSL VPN IP access information for policy groups.

XML structure

```

<SSLVPN>
  <IpAcPolicys>
    <IpAcPolicy>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <KeepAlive></KeepAlive>
      <Ipv4AclNumber></Ipv4AclNumber>
      <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. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
KeepAlive	Keepalive interval	N/A	Unsigned integer. Value range: 0 to 600, in	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			seconds.	
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> RouteType. RouteList. Ipv4Address. Ipv4PrefixLength. 	N/A
RouteType	The way how the route is specified	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Primary. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> Secondary. 	
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>
      <Ipv4AddressPool>
        <Name></Name>
        <Ipv4PrefixLength></Ipv4PrefixLength>
      </Ipv4AddressPool>
      <Ipv4AclNumber></Ipv4AclNumber>
      <Ipv6AclNumber></Ipv6AclNumber>
      <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
Ipv4AddressPool	Referenced address pool	Data structure	Members include: <ul style="list-style-type: none"> Name. Ipv4PrefixLength. 	N/A
Name	SSL VPN IPv4 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
Ipv4AclNumber	Referenced IPv4 advanced ACL number	N/A	Unsigned integer. Value range: 3000 to 3999.	New feature, not compatible with the old table.
Ipv6AclNumber	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: <ul style="list-style-type: none"> RouteType. RouteList. Ipv4Address. Ipv4PrefixLength. 	N/A
RouteType	The way how the route is specified	N/A	Enumeration: <ul style="list-style-type: none"> 1—Route list. 2—IPv4 address. 	N/A
ForceAll	Whether the force all is enabled	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
RouteList	SSL VPN route list name	N/A	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 ?.	
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. The string can contain only letters, digits, and underscores (_).	New feature, not compatible with the old 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 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	Whether the user address is an IPv6 address	N/A	Boolean: <ul style="list-style-type: none"> 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 session statistics.

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 (_).
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 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. <ul style="list-style-type: none">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>
      <Ipv4AclNumber></Ipv4AclNumber>
      <Ipv6AclNumber></Ipv6AclNumber>
      <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 ?.
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.
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/UrlLists

This table contains SSL VPN URL list information for policy groups.

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

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/UrlCtxItems

This table contains SSL VPN URL item configuration information.

XML structure

```
<SSLVPN>
  <UrlCtxItems>
    <UrlCtxItem>
      <ContextName></ContextName>
      <ItemName></ItemName>
      <UrlMapping>
        <MappingType></MappingType>
        <Domain></Domain>
        <GatewayName></GatewayName>
        <VirtualHost></VirtualHost>
        <Rewrite></Rewrite>
      </UrlMapping>
      <UrlValue></UrlValue>
      <URIACLName></URIACLName>
    </UrlCtxItem>
  </UrlCtxItems>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	UrlCtxItems
Table type	Multi-instance table
Row name	UrlCtxItem
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
ItemName	URL item name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A
UrlMapping	URL mapping	Data structure	Members include: <ul style="list-style-type: none">MappingType.Domain.GatewayName.VirtualHost.Rewrite.	N/A

MappingType	URL mapping type	N/A	Enumeration: <ul style="list-style-type: none"> 1—domain mapping. 2—port mapping. 	N/A
Domain	Domain name specified for the domain mapping	N/A	String, case insensitive. Length: 1 to 127 characters. The string can contain only letters, digits, hyphens (-), underscores (_), and dots (.).	N/A
GatewayName	Gateway name specified for the port mapping	N/A	String, case insensitive. Length: 1 to 31 characters. The string can contain only letters, digits, and underscores (_).	N/A
VirtualHost	Virtual host name 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
Rewrite	Whether absolute URL rewriting is enabled	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
UrlValue	URL string	N/A	String, case insensitive. Length: 1 to 253 characters.	N/A
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/UrlItemResources

This table contains SSL VPN URL item resource configuration information.

XML structure

```

<SSLVPN>
  <UrlItemResources>
    <UrlItemResource>
      <ContextName></ContextName>
      <UrlListName></UrlListName>
      <ItemName></ItemName>
    </UrlItemResource>
  </UrlItemResources>
</SSLVPN>

```


Table description

Item	Description
Feature name	SSLVPN
Table name	UrlItemResources
Table type	Multi-instance table
Row name	UrlItemResource
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
UrlListName	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 ?.	N/A
ItemName	URL item name	Index	String, case insensitive. Length: 1 to 31 characters.	N/A

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>
```


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: <ul style="list-style-type: none"> 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 SessionConnctionNum 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A

SSLVPN/IpAcStatistics

This table contains SSLVPN IP access packet statistics for each user .

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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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 packets during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
KeepaliveReplyPkts	Number of keepalive reply packets during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
RecvUpdateConfigPkts	Number of received configuration updating reply packets during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SendUpdate CfgPkts	Number of sent configuration updating reply packets during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

SSLVPN/IpAcContextStatistics

This table contains IP access packet statistics for each SSL VPN context.

XML structure

```

<SSLVPN>
  <IpAcContextStatistics>
    <IpAcContextStatistic>
      <ContextName></ContextName>
      <ClientInBytes></ClientInBytes>
      <ClientOutBytes></ClientOutBytes>
      <ServerInBytes></ServerInBytes>
      <ServerOutBytes></ServerOutBytes>
    </IpAcContextStatistic>
  </IpAcContextStatistics>
</SSLVPN>

```

Table description

Item	Description
Feature name	SSLVPN
Table name	IpAcContextStatistics
Table type	Multi-instance table
Row name	IpAcContextStatistic
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

Column name	Column description	Column type	Data type and restrictions	Remarks
ClientInBytes	Number of IP access request bytes received from client during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
ClientOutBytes	Number of IP access reply bytes sent to client during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
ServerInBytes	Number of IP access reply bytes received from server during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
ServerOutBytes	Number of IP access request packet bytes sent to server during a specific period	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A

SSLVPN/PortForwardCtxItems

This table contains SSL VPN port forwarding items control configuration information.

XML structure

```

<SSLVPN>
  <PortForwardCtxItems>
    <PortForwardCtxItem>
      <ContextName></ContextName>
      <ItemName></ItemName>
      <LocalPortNumber></LocalPortNumber>
      <LocalName></LocalName>
      <RemoteServer></RemoteServer>
      <RemotePortNumber></RemotePortNumber>
      <Description></Description>
      <Execution></Execution>
    </PortForwardCtxItem>
  </PortForwardCtxItems>
</SSLVPN>

```


Table description

Item	Description
Feature name	SSLVPN
Table name	PortForwardCtxItems
Table type	Multi-instance table
Row name	PortForwardCtxItem
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 (_).
ItemName	Port forwarding item 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	N/A	Unsigned integer. Value range: 1 to 65535.
LocalName	Domain name of the local 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 (.).
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.
Execution	Configure the script to execute for the port forwarding item	N/A	String, case insensitive. Length: 1 to 255 characters.

SSLVPN/PortForwardItemResources

This table contains SSL VPN port forwarding item resource configuration information.

XML structure

```
<SSLVPN>
  <PortForwardItemResources>
    <PortForwardItemResource>
      <ContextName></ContextName>
      <PortForwardName></PortForwardName>
      <ItemName></ItemName>
    </PortForwardItemResource>
  </PortForwardItemResources>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	PortForwardItemResource
Table type	Multi-instance table
Row name	PortForwardItemResourc
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 (_).
PortForwardName	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 ?.
ItemName	Port forwarding item name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/Shortcuts

This table contains SSL VPN short cut configuration information.

XML structure

```
<SSLVPN>
  <Shortcuts>
    <Shortcut>
      <ContextName></ContextName>
      <ShortcutName></ShortcutName>
      <Description></Description>
      <Execution></Execution>
    </Shortcut>
  </Shortcuts>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Shortcuts
Table type	Multi-instance table
Row name	Shortcut
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 (_).
ShortcutName	SSL VPN short cut name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
Description	Description for the port forwarding entry	N/A	String. Length: 1 to 63 characters.
Execution	Configure the script to execute for the shortcut	N/A	String, case insensitive. Length: 1 to 255 characters.

SSLVPN/ShortcutLists

This table contains SSL VPN short cut list configuration information.

XML structure

```
<SSLVPN>
  <ShortcutLists>
    <ShortcutList>
      <ContextName></ContextName>
      <ShortcutListName></ShortcutListName>
    </ShortcutList>
  </ShortcutLists>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ShortcutLists
Table type	Multi-instance table
Row name	ShortcutList
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 (_).
ShortcutListName	SSL VPN short cut list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/ShortcutResources

This table contains SSL VPN short cut list resource configuration information.

XML structure

```
<SSLVPN>
  <ShortcutResources>
    <ShortcutResource>
      <ContextName></ContextName>
      <ShortcutListName></ShortcutListName>
      <ShortcutName></ShortcutName>
    </ShortcutResource>
  </ShortcutResources>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ShortcutRefers
Table type	Multi-instance table
Row name	ShortcutRefer
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 (_).
ShortcutListName	SSL VPN short cut list name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.
ShortcutName	SSL VPN short cut name	Index	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/ShortcutPolicies

This table contains SSL VPN short cut information for policy groups.

XML structure

```
<SSLVPN>
  <ShortcutPolicys>
    <ShortcutPolicy>
      <ContextName></ContextName>
      <PGroupName></PGroupName>
      <ShortcutListName></ShortcutListName>
    </ShortcutPolicy>
  </ShortcutPolicys>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	ShortcutPolicys
Table type	Multi-instance table
Row name	ShortcutPolicy
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 ?.
ShortcutListName	SSL VPN shortcut list name	N/A	String, case insensitive. Length: 1 to 31 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.

SSLVPN/Users

This table contains SSL VPN user bind address information.

XML structure

```
<SSLVPN>
  <Users>
    <User>
      <ContextName></ContextName>
      <UserName></UserName>
      <BindAddress></BindAddress>
      <AutoBindAddressNum></AutoBindAddressNum>
    </User>
  </Users>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	Users
Table type	Multi-instance table
Row name	User
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	SSLVPN user	Index	String, case insensitive. Length: 1 to 63 characters. The value can contain Chinese characters. Invalid characters are \t \r \n ?.	N/A
BindAddress	IP address list	N/A	String, dotted decimal notation.	Example: 10.1.1.5,10.1.1.10-10.1.1.20
AutoBindAddressNum	Automatically allocate available IP addresses to the user	N/A	Unsigned integer. Value range: 1 to 10	This column is not displayed by the GET operation

SSLVPN/GlobalCustomInfos

This table contains global customization information about SSL VPN user access clients.

XML structure

```
<SSLVPN>
  <GlobalCustomInfos>
    <GlobalCustomInfo>
      <CurrentIPClient></CurrentIPClient>
    </GlobalCustomInfo>
  </GlobalCustomInfos>
</SSLVPN>
```

Table description

Item	Description
Feature name	SSLVPN
Table name	GlobalCustomInfos
Table type	Multi-instance table
Row name	GlobalCustomInfo
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
CurrentIPClient	Type of the current IP access client of the SSL VPN user.	N/A	Enumeration: <ul style="list-style-type: none">1—Default.2—Custom.	N/A

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SSLVPN

SSLVPN/Gateways

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IP地址时，指定的地址无效。
Can't delete the gateway. It is associated with contexts. 指定的SSL VPN网关已经被SSL VPN访问实例引用，无法删除。	Delete the specified gateway,which is referenced by other access instances. 删除指定gateway时，此网关被其它访问实例引用。
The specified port number must be different from the HTTP redirection port number. 指定的端口号不能是HTTP重定向端口号。	Configuring the IP address port is the same as redirecting port. HTTPS的端口号不能与HTTP重定向端口相同。
The port has already been used. 此端口号已被占用。	Configuration redirection ports have been occupied by other configurations. 配置的重定向端口已被其它配置占用。
Can't enable the SSL VPN gateway: The gateway IP address is already used by another SSL VPN gateway. 开启当前的SSL VPN网关失败：该网关的IP地址已经被其它SSL VPN网关使用。	The address bound by the open gateway has been used by other gateways. 开启网关失败，此网关的IP地址被其它网关使用。
The specified IP address and port number can't be the same as those of other SSL VPN gateways. 指定IP地址和端口号不能与其他网关相同。	The configured IP address and port are the same as the existing gateway. 配置的IP地址和端口和已有的网关相同。
The specified IPv6 address and port number can't be the same as those of other SSL VPN gateways. 指定IPv6地址和端口号不能与其他网关相同。	The configured IPv6 address and port are the same as the existing gateway. 配置的IPv6地址和端口和已有的网关相同。

SSLVPN/Contexts

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IP地址时，指定的地址无效
The specified SSL VPN gateway doesn't exist. 指定的SSL VPN网关不存在。	When adding the gateway,the specified name does not exist. 添加SSL VPN网关时，指定的名称不存在。

<p>A context has already been associated with the gateway without specifying a domain name or virtual host name.</p> <p>该SSL VPN网关已经被其他的SSL VPN访问实例引用，且引用时未指定域名和虚拟主机名。</p>	<p>Configure the gateway under the access instance, which has been monopolized by other access instances.</p> <p>访问实例下配置网关，此网关已经被其它访问实例独占。</p>
<p>The domain name is already used by a context associated with the gateway.</p> <p>不能为引用同一个SSL VPN网关的不同SSL VPN访问实例指定相同的域名。</p>	<p>Configure the gateway and domain name under the access instance, which has been referenced by the same domain name as other access instances.</p> <p>访问实例下配置网关和域名，此网关已经被其它访问实例以相同的域名引用。</p>
<p>The virtual host name is already used by a context associated with the gateway.</p> <p>不能为引用同一个SSL VPN网关的不同SSL VPN访问实例指定相同的虚拟主机名称。</p>	<p>Configure the gateway and virtual host name under the access instance, which has been referenced by the same virtual host name as other access instances.</p> <p>访问实例下配置网关和虚拟主机名，此网关已经被其它访问实例以相同的虚拟主机名引用。</p>
<p>Invalid AAA domain name.</p> <p>AAA域名非法。</p>	<p>The name specified for configuring the AAA domain name is invalid.</p> <p>配置AAA域名，指定的名称无效。</p>
<p>An address in the address pool conflicted with an address on the device.</p> <p>地址池中的地址和设备中的地址存在冲突。</p>	<p>The configured IP address pool conflicts with the address in the device.</p> <p>配置的IP地址池和设备中的地址有冲突。</p>
<p>Maximum number of associated gateways already reached.</p> <p>SSL VPN网关引用数已达上限。</p>	<p>The maximum number of reference gateways is reached.</p> <p>引用网关数达到最大值。</p>
<p>The virtual host name is already used in the URL mapping configuration of an URL item in the SSL VPN context.</p> <p>当前SSL VPN访问实例下的URL表项已经使用该虚拟主机名。</p>	<p>The reference gateway is a virtual host name, the same as the domain referenced by a resource map under a URL item in the current context.</p> <p>引用网关为虚拟主机名方式，与当前Context中某个URL表项下URL资源映射所引用的域名相同。</p>
<p>The gateway is already used in the URL mapping configuration of an URL item.</p> <p>该网关已被URL表项下的资源映射配置使用。</p>	<p>The reference gateway is an exclusive reference that has been referenced by the URL resource mapping under the context url table entry.</p> <p>引用网关为独占式引用，而该网关已经被Context URL表项下的URL资源映射所引用。</p>
<p>The gateway is already associated with another SSL VPN context through a domain name or virtual host name.</p> <p>该SSL VPN网关已经被其他SSL VPN访问实例以域名或虚拟主机名的方式引用。</p>	<p>Configure the gateway monopoly, which has been referenced by the domain name or virtual host name of other contexts.</p> <p>配置网关独占方式，而该网关已经被其它Context已域名或虚拟主机名的方式引用。</p>
<p>The specified gateway name and virtual host name are already used in the URL mapping configuration of an URL item.</p> <p>指定的网关及虚拟主机名已被URL表项使用。</p>	<p>The reference gateway is a virtual host name, gateway and virtual host names are already used in the URL mapping</p> <p>引用网关为虚拟主机名方式，其网关及虚拟主机名已被URL表项使用。</p>

SSLVPN/Contexts_v2

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IP地址时，指定的地址无效
Invalid AAA domain name. AAA域名非法。	The name specified for configuring the AAA domain name is invalid. 配置AAA域名，指定的名称无效。
An address in the address pool conflicted with an address on the device. 地址池中的地址和设备中的地址存在冲突。	The configured IP address pool conflicts with the address in the device. 配置的IP地址池和设备中的地址有冲突。

SSLVPN/ContextGateways

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN gateway doesn't exist. 指定的SSL VPN网关不存在。	When adding the gateway,the specified name does not exist. 添加网关时，指定名称的网关不存在。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
A context has already been associated with the gateway without specifying a domain name or virtual host name. 该SSL VPN网关已经被其他的SSL VPN访问实例引用，且引用时未指定域名和虚拟主机名。	Configure the gateway under the access instance,which has been monopolized by other access instances. 访问实例下配置网关，此网关已经被其它访问实例独占
The domain name is already used by a context associated with the gateway. 不能为引用同一个SSL VPN网关的不同SSL VPN访问实例指定相同的域名。	Configure the gateway and domain name under the access instance,which has been referenced by the same domain name as other access instances. 访问实例下配置网关和域名，此网关已经被其它访问实例已相同的域名引用。
The virtual host name is already used by a context associated with the gateway. 不能为引用同一个SSL VPN网关的不同SSL VPN访问实例指定相同的虚拟主机名称。	Configure the gateway and virtual host name under the access instance,which has been referenced by the same virtual host name as other access instances. 访问实例下配置网关和虚拟主机名，此网关已经被其它访问实例以相同的虚拟主机名引用。
Maximum number of associated gateways already reached. SSL VPN网关引用数已达上限。	The maximum number of reference gateways is reached. 引用网关数达到最大值。

<p>The virtual host name is already used in the URL mapping configuration of an URL item in the SSL VPN context.</p> <p>当前SSL VPN访问实例下的URL表项已经使用该虚拟主机名。</p>	<p>The reference gateway is a virtual host name, the same as the domain referenced by a resource map under a URL item in the current context.</p> <p>引用网关为虚拟主机名方式，与当前Context中某个URL表项下URL资源映射所引用的域名相同。</p>
<p>The gateway is already used in the URL mapping configuration of an URL item.</p> <p>该网关已被URL表项下的资源映射配置使用。</p>	<p>The reference gateway is an exclusive reference that has been referenced by the URL resource mapping under the context turl table entry.</p> <p>引用网关为独占式引用，而该网关已经被Context URL表项下的URL资源映射所引用。</p>
<p>The gateway is already associated with another SSL VPN context through a domain name or virtual host name.</p> <p>该SSL VPN网关已经被其他SSL VPN访问实例以域名或虚拟主机名的方式引用。</p>	<p>Configure the gateway monopoly, which has been referenced by the domain name or virtual host name of other contexts.</p> <p>配置网关独占方式，而该网关已经被其它Context以域名或虚拟主机名的方式引用。</p>
<p>The specified gateway name and virtual host name are already used in the URL mapping configuration of an URL item.</p> <p>指定的网关及虚拟主机名已被URL表项使用。</p>	<p>The reference gateway is a virtual host name, gateway and virtual host names are already used in the URL mapping</p> <p>引用网关为虚拟主机名方式，其网关及虚拟主机名已被URL表项使用。</p>

SSLVPN/IpAcContexts

Message	Explanation
<p>SSL VPN is not enabled.</p> <p>SSL VPN服务没有开启。</p>	<p>Get or configuration data when the SSLVPN process is not started.</p> <p>当SSLVPN进程没有开启时，获取数据或下发配置。</p>
<p>Invalid IP address.</p> <p>IP地址无效。</p>	<p>When configuring an IP address,the specified address is invalid.</p> <p>配置IP地址时，指定的地址无效</p>
<p>An address in the address pool conflicted with an address on the device.</p> <p>地址池中的地址和设备中的地址存在冲突。</p>	<p>The configured IP address pool conflicts with the address in the device.</p> <p>配置的IP地址池和设备中的地址有冲突。</p>

SSLVPN/UISettings

Message	Explanation
<p>SSL VPN is not enabled.</p> <p>SSL VPN服务没有开启。</p>	<p>Get or configuration data when the SSLVPN process is not started.</p> <p>当SSLVPN进程没有开启时，获取数据或下发配置。</p>
<p>Invalid file name.</p> <p>文件名非法。</p>	<p>When configuring a file name,the specified name is invalid.</p> <p>配置文件名时，指定的名称无效</p>
<p>The logo file doesn't exist.</p> <p>logo文件不存在。</p>	<p>Configure the logo file,the specified file does not exist.</p> <p>配置logo文件，指定的文件不存在。</p>
<p>File size should not exceed 100KB.</p>	<p>The length of the file exceeds 100KB.</p>

文件大小不能超过100KB。	文件的大小超过100KB。
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SSLVPN/PortForwardLists

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
Can't delete the port-forwarding list. It is associated with policy groups. 指定的端口转发列表已经被策略组引用，无法删除。	Delete the port forward list,which has been referenced by the policy group. 删除端口转发列表时，此列表已被策略组引用。

SSLVPN/PortForwardItems

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Remote server name is required. 需要输入远端服务器名称。	Create a port to publish entry,the remote server name is not issued. 创建端口转发表项，并没有指定远端服务器名称。
Remote server port is required. 需要输入远端服务器端口号。	Create a port to publish entry,the remote server port is not issued. 创建端口转发表项，并没有指定远端服务器端口没有下发。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
Can't delete the port forwarding item. Reason: The item has been assigned to a port forwarding list. 无法删除端口转发表项，因为此表项已端口转发列表引用	Delete the referenced port forwarding item. 删除已被引用的端口转发列表。

SSLVPN/Ipv4AddressPools

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The start IP address is required.	When configuring an address,there is no start IP.

需要输入地址池的起始地址。	配置地址时，没有指定起始地址。
The end IP address is required. 需要输入地址池的结束地址。	When configuring an address,there is no end IP. 配置地址时，没有指定结束地址。
The IP address range can't overlap with an existing IP address range. 地址范围不能与已有地址池的地址范围重叠。	Configure the IP address range to overlap the address range in the existing address pool. 配置IP地址范围和已有地址池中的地址范围重叠。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IP地址时，指定的地址无效
The start IP address must be smaller than or equal to the end IP address. 地址池的起始地址必须小于或等于结束地址。	When configuring an IP address, the starting address is greater than the ending address. 配置IP地址时，起始地址大于结束地址。
The IP address range can't include loopback addresses. 地址池的地址范围不能包含环回地址。	The configured IP address contains the loopback address. 配置的IP地址中包含环回地址。
An address in the address pool conflicted with an address on the device. 地址池中的地址和设备中的地址存在冲突。	The configured IP address pool conflicts with the address in the device. 配置的IP地址池和设备中的地址有冲突。

SSLVPN/RouteLists

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
Can't delete the route list. It is referenced by policy groups. 指定的路由列表已经被策略组引用，无法删除。	Delete the routing list referenced by the policy group. 删除已被策略组引用的路由列表。

SSLVPN/RouteItems

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IP地址时，指定的地址无效
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。

SSLVPN/PolicyGroups

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
Can't delete the policy group. It is associated with contexts. 指定的策略组已经被SSL VPN访问实例引用，无法删除。	Delete the referenced policy group. 删除已经被SSLVPN 访问实例引用的策略组。

SSLVPN/TcpAcPolicys

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified port-forwarding list doesn't exist. 指定的端口转发列表不存在。	Configure a list of port forwarding references that do not exist. 配置引用不存在的端口转发列表。
The uri-acl does not exist. URI ACL不存在。	When configuring data, the URI ACL does not exist. 配置数据时，URI ACL不存在。

SSLVPN/IpAcPolicys

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IP地址时，指定的地址无效
The route list doesn't exist. 引用的路由列表不存在。	Configure routing lists that do not exist. 配置引用不存在的路由列表。

SSLVPN/IpAcPolicys_v2

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IP地址时，指定的地址无效
The route list doesn't exist. 引用的路由列表不存在。	Configure routing lists that do not exist. 配置引用不存在的路由列表。
The uri-acl does not exist. URI ACL不存在。	When configuring data, the URI ACL does not exist. 配置数据时，URI ACL不存在。

SSLVPN/Sessions

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/ContextStatistics

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/URIACLs

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
The uri-acl is in use. URI ACL正在被使用。	Delete the referenced URI ACL. 删除已被引用的URI ACL。

SSLVPN/URIACLItems

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
The uri-acl does not exist. URI ACL不存在。	When configuring data, the URI ACL does not exist. 配置数据时，URI ACL不存在。
Invalid uri-acl rule ID. 无效的URI ACL规则ID。	When configuring an ID, the specified value is invalid. 配置URI ACL的ID时，指定的值无效。
Please input uri-acl rule action. 需要输入URI ACL规则动作。	When configuring data, no regular action is issued. 配置数据时，必须指定规则动作。
Please input uri-acl rule pattern. 需要输入URI ACL规则样式。	When configuring data, no rule style is issued. 配置数据时，必须指定规则样式。
Pattern string is invalid. 模式字符串不合法。	When configuring data, the specified pattern string is invalid. 配置数据时，指定的模式字符串无效。
Protocol string is invalid. 协议类型不合法	When configuring data, the specified protocol is invalid. 配置数据时，指定的协议无效。
Host name string is invalid. 主机地址或域名不合法。	When configuring data, the specified host address or domain name is invalid. 配置数据时，指定的主机地址或域名无效。
Port string is invalid. 端口不合法。	When configuring data, the specified port is invalid. 配置数据时，指定的端口无效。
Path string is invalid. 路径不合法。	When configuring data, the specified path is invalid. 配置数据时，指定的路径无效。

SSLVPN/WebAcPolicys

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The uri-acl does not exist. URI ACL不存在。	When configuring data, the URI ACL does not exist. 配置数据时，URI ACL不存在。

SSLVPN/UrlLists

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
Can't delete the url list: It is associated with policy groups. 指定的URL列表被策略组引用，无法删除。	Delete the URL list referenced by the policy group. 删除已被策略组引用的URL列表。

SSLVPN/UrlItems

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
The specified url-list list doesn't exist. 指定的URL列表不存在。	When configuring data, the specified URL list does not exist. 配置数据时，指定的URL列表不存在。
Can't delete the URL item because it has been assigned to a URL list. 无法删除URL表项，因为该表项已被URL列表引用。	Delete the URL item referenced by the URL list. 删除已被URL 列表引用的URL表项。
The URL is already specified for another URL item in the SSL VPN context. 当前SSL VPN访问实例下的其他URL表项中已存在该URL。	In the case of resource mapping, the URL item is configured with the same value as the other URL item. 资源映射情况下，配置的URL表项和其它URL表项相同。

SSLVPN/UrlCtxItems

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN gateway doesn't exist. 指定的SSL VPN网关不存在。	When adding the gateway,the specified name does not exist. 添加网关时，指定的名称不存在。
The specified SSL VPN context doesn't exist.	When the configuration is added,the context instance does not exist.

指定的SSL VPN访问实例不存在。	添加配置时，访问实例不存在。
The specified URL item doesn't exist. 指定的URL表项不存在。	When configuring data, the specified URL item does not exist. 配置数据时，指定的URL表项不存在。
The domain name is already used in the URL mapping configuration of another URL item in the SSL VPN context. 当前SSL VPN访问实例下的其他URL表项下域名映射配置已使用该域名。	The configuration domain name is the same as the domain name mapped under other URL item. 配置域名和其它URL表项下域名映射的域名相同。
The domain name specified in the URL item is the same as the gateway's virtual host name specified for the SSL VPN context. 该URL表项配置的域名与当前SSL VPN访问实例下配置的网关虚拟主机名相同。	The configured domain name is the same as the gateway virtual host name under the current access instance. 配置域名和当前SSLVPN访问实例下的网关虚拟主机名相同。
The URL specified for the URL item is the same as the URL specified for another URL item (in the same SSL VPN context) that has URL mapping configured. 指定的URL与当前SSL VPN访问实例下的其他URL表项中配置的URL相同。	Configuring URL mapping ,the URL configured under the URL item is the same as other URL item configured with resource mapping under the current context. 配置资源映射时，该URL表项下配置的URL与当前Context下的其它配置了资源映射的URL表项的URL相同
The gateway is already used in the URL mapping configuration of another URL item. 其他URL表项下的端口映射已配置该网关。	The referenced gateway is called an exclusive reference, the gateway is already referenced by the URL resource map under the url table entry of the context. 引用的网关名为独占引用，而该网关已经被Context 的URL表项下URL资源映射所引用
The gateway name and virtual host name are already associated with an SSL VPN context. 该URL表项配置的网关及虚拟主机名已经被SSL VPN访问实例使用。	The reference gateway name and virtual host name are the same as the gateway and virtual host name referenced by the context. 引用的网关名和虚拟主机名与Context引用的网关和虚拟主机名都相同
The gateway name and virtual host name specified in the URL item are already used in the URL mapping of another URL item. 该URL表项配置的网关及虚拟主机名已被其他URL表项使用。	When configuring URL mapping ,the configured gateway and virtual host names under the url table item have been used by other URL table items. 配置资源映射时，该URL表项下配置的网关及虚拟主机名已经被其它URL表项使用。
The gateway name specified in the URL item is already associated with an SSL VPN context. 该URL表项引用的网关已经和SSL VPN访问实例关联。	When configuring URL mapping ,the referenced gateway is already associated with the SSLVPN access instance. 配置资源映射时，引用的网关已经和SSLVPN访问实例关联。

SSLVPN/UrlItemResources

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。

The specified url-list list doesn't exist. 指定的URL列表不存在。	When configuring data, the specified URL list does not exist. 配置数据时，指定的URL列表不存在。
The specified URL item doesn't exist. 指定的URL表项不存在。	When configuring data, the specified URL item does not exist. 配置数据时，指定的URL表项不存在。

SSLVPN/SnatPools

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IP地址时，指定的地址无效
An address in the address pool conflicted with an address on the device. 地址池中的地址和设备中的地址存在冲突。	The configured IP address pool conflicts with the address in the device. 配置的IP地址池和设备中的地址有冲突。
The end address must be greater than or equal to the start address. 地址池的结束地址必须大于或等于起始地址。	When configuring an IP address, the end address is less than the beginning address. 配置IP地址时，结束地址小于起始地址。
Number of addresses in the SNAT pool exceeded the limit. 地址池内的地址数量已达上限。	When configuring an IP address, the number of addresses exceeds the maximum. 配置IP地址时，地址数量超过最大值。
The specified SNAT pool member can't overlap with an existing member in another SNAT pool. 地址范围不能与已有地址池的地址范围重叠。	Configure the IP address range to overlap the address range in the existing address pool. 配置IP地址范围和已有地址池中的地址范围重叠。
The start IP address is required. 需要输入SNAT POOL的起始地址。	When configuring an address,there is no start IP. 配置地址时，没有指定起始地址。
The end IP address is required. 需要输入SNAT POOL的结束地址。	When configuring an address,there is no end IP. 配置地址时，没有指定结束地址。

SSLVPN/Ipv6SnatPools

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
Invalid IP address. IP地址无效。	When configuring an IP address,the specified address is invalid. 配置IPv6地址时，指定的地址无效
An address in the address pool conflicted with an address on the device. 地址池中的地址和设备中的地址存在冲突。	The configured IP address conflicts with the address in the device. 配置的IPv6地址池和设备中的地址有冲突。

The end address must be greater than or equal to the start address. 地址池的结束地址必须大于或等于起始地址。	When configuring an IP address, the end address is less than the beginning address. 配置IPv6地址时，结束地址小于起始地址。
Number of addresses in the SNAT pool exceeded the limit. 地址池内的地址数量已达上限。	When configuring an IP address, the number of addresses exceeds the maximum. 配置IPv6地址时，地址数量超过最大值。
The specified SNAT pool member can't overlap with an existing member in another SNAT pool. 地址范围不能与已有地址池的地址范围重叠。	Configure the IP address range to overlap the address range in the existing address pool. 配置IPv6地址范围和已有地址池中的地址范围重叠。
The start IP address is required. 需要输入SNAT POOL的起始地址。	When configuring an address,there is no start IP. 配置IPv6地址时，没有指定起始地址。
The end IP address is required. 需要输入SNAT POOL的结束地址。	When configuring an address,there is no end IP. 配置IPv6地址时，没有指定结束地址。

SSLVPN/UrlResources

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
The specified policy group doesn't exist. 指定的策略组不存在。	When the configuration is added,the policy group instance does not exist. 添加配置时，策略组不存在。
The specified url-list list doesn't exist. 指定的URL列表不存在。	When configuring data, the specified URL list does not exist. 配置数据时，指定的URL列表不存在。

SSLVPN/SnatResources

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified snat pool doesn't exist. 指定的SNAT地址池不存在。	When configuring data, the specified SNAT pool does not exist. 配置数据时，指定的SNAT地址池不存在。

SSLVPN/UserControls

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/GlobalLog

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/IpAcStatistics

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/IpAcContextStatistics

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/PortForwardCtxItems

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 配置数据时，访问实例不存在。
Local name is required.	Add the configuration and the local server name is not issued.

需要指定本地服务器名称。	添加配置时，没有指定本地服务器名称。
Local port is required. 需要指定本地服务器端口号	Add the configuration and the local server port is not issued. 添加配置时，没有指定本地服务器端口。
The specified port forwarding item doesn't exist. 指定的端口转发表项不存在	When configuring data,the port forwarding list does not exist. 配置数据时，端口转发列表不存在。
Can't delete the port forwarding item. Reason: The item has been assigned to a port forwarding list. 无法删除端口转发表项，因为此表项已端口转发列表引用	Delete the referenced port forwarding item. 删除已被引用的端口转发列表。

SSLVPN/PortForwardItemResources

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
The specified port forwarding item doesn't exist. 指定的端口转发表项不存在	When configuring data,the forwarding list does not exist. 配置数据时，端口转发列表不存在。

SSLVPN/Shortcuts

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
Can't delete the shortcut. Reason: The shortcut has been assigned to a shortcut list. 无法删除快捷方式，因为此快捷方式已被快捷方式列表引用	Delete the referenced shortcut. 删除已被引用的快捷方式。

SSLVPN/ShortCutLists

Message	Explanation
SSL VPN is not enabled.	Get or configuration data when the SSLVPN process is not started.

SSL VPN服务没有开启。	当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。
Can't delete the shortcut list. Reason: The list has been assigned to a policy group. 无法删除快捷方式列表，因为此快捷方式列表已被策略组引用。	Delete the referenced shortcut list. 删除已被引用的快捷方式列表。

SSLVPN/ShortcutResources

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added, the context instance does not exist. 添加配置时，访问实例不存在。
The specified shortcut doesn't exist. 指定的快捷方式不存在。	When the configuration is added, the specified shortcut doesn't exist. 配置数据时，指定的快捷方式不存在。
The specified shortcut list doesn't exist. 指定的快捷方式列表不存在。	When the configuration is added, the specified shortcut list doesn't exist. 配置数据时，指定的快捷方式列表不存在。

SSLVPN/ShortcutPolicys

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Gets or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/Users

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The specified SSL VPN context doesn't exist. 指定的SSL VPN访问实例不存在。	When the configuration is added,the context instance does not exist. 添加配置时，访问实例不存在。

<p>Operation succeeded. However, invalid addresses are included: broadcast or network addresses, or addresses not in the IP access address pool.</p> <p>操作成功，但是包含无效地址：广播地址、网络地址或不在地址池中的地址。</p>	<p>Binding IP addresses contain broadcast addresses, network addresses, or addresses that are not in the address pool.</p> <p>绑定IP地址包含广播地址、网络地址或不在地址池中的地址。</p>
<p>Operation failed. Some of the addresses are already bound to other users.</p> <p>操作失败，部分地址已经被其它用户绑定。</p>	<p>Bind IP addresses, some of which have been bound by other users.</p> <p>绑定的IP地址，部分地址已经被其它用户绑定。</p>
<p>Operation failed. The available IP addresses in the address pool were not enough for auto allocation.</p> <p>操作失败，地址池中可用于分配的地址已经不足以自动分配。</p>	<p>Configuration automatically assigns more addresses than the number of addresses remaining in the address pool.</p> <p>配置自动分配地址数大于地址池中剩余地址数量。</p>
<p>Invalid IP address list.</p> <p>无效的IP地址列表。</p>	<p>The configured IP address is illegal.</p> <p>配置的IP地址无效。</p>
<p>The specified SSL VPN user doesn't exist.</p> <p>指定的SSL VPN用户不存在。</p>	<p>The configured user does not exist.</p> <p>配置下发的用户不存在。</p>
<p>The username cannot contain the following special characters: / : * ? < > @.</p> <p>用户名不能包含以下特殊字符： / : * ? < > @。</p>	<p>The username configured to issue contains illegal characters.</p> <p>配置下发的用户名包含非法字符。</p>
<p>Operation failed. No IP access address pool is available in the SSL VPN context.</p> <p>操作失败，在SSL VPN访问实例中不存在有效的地址池。</p>	<p>The SSLVPN access instance does not reference the address pool.</p> <p>SSLVPN访问实例没有引用地址池。</p>
<p>Operation failed. Maximum number of bound addresses already reached."</p> <p>操作失败，已经达到可绑定的最大地址数。</p>	<p>The number of addresses bound by the user exceeds the maximum.</p> <p>用户绑定的地址数超过最大限制。</p>
<p>BindAddress and AutoBindAddrNum cannot both be configured.</p> <p>BindAddress 和 AutoBindAddrNum 不能同时配置。</p>	<p>Simultaneously issue the specified and automatic IP address binding.</p> <p>不能同时下发指定和自动IP地址绑定。</p>

SSLVPN/GlobalCustomInfos

Message	Explanation
<p>SSL VPN is not enabled.</p> <p>SSL VPN服务没有开启。</p>	<p>Get or configuration data when the SSLVPN process is not started.</p> <p>当SSLVPN进程没有开启时，获取数据或下发配置。</p>

SSLVPN/LogoutAlls

Message	Explanation
<p>SSL VPN is not enabled.</p> <p>SSL VPN服务没有开启。</p>	<p>Get or configuration data when the SSLVPN process is not started.</p> <p>当SSLVPN进程没有开启时，获取数据或下发配置。</p>

SSLVPN/LogoutUsers

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/LogoutSessions

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。

SSLVPN/GlobalCustoms

Message	Explanation
SSL VPN is not enabled. SSL VPN服务没有开启。	Get or configuration data when the SSLVPN process is not started. 当SSLVPN进程没有开启时，获取数据或下发配置。
The file size cannot exceed 50000 KB. 文件大小不能超过50M。	The configuration file size exceeds 50M. 配置文件大小超过50M。
The file does not exist. 文件不存在。	The configuration specified file does not exist. 配置指定的文件不存在。
Invalid file format. The file format must be EXE. 文件格式错误，必须为exe格式。	Configuring the specified file format is illegal. 配置指定的文件格式非法。

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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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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>
      <RecursiveHost></RecursiveHost>
    </RouteEntry>
  </Ipv4StaticRouteConfigurations>
</StaticRoute>
```

Table description

Item	Description
Feature name	StaticRoute
Table name	Ipv4StaticRouteConfigurations
Table type	Multi-instance table
Row name	RouteEntry
Restrictions	None

Item	Description
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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> • true—Permanent route. • false—Not a Permanent route. 	Default value is false.
BackupPathAttribute	Backup path attribute.	Data structure	Members include: <ul style="list-style-type: none"> • BackupIfIndex. • BackupNextHopIPv4Addresses. 	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 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: <ul style="list-style-type: none"> • BfdWorkMode. • BfdSourceIPv4Address. 	N/A
BfdWorkMode	BFD work mode.	N/A	Enumeration: <ul style="list-style-type: none"> • 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
RecursiveHost	Recursive lookup for ARP host routes.	N/A	Boolean: <ul style="list-style-type: none"> • true—Looks up for only ARP host routes. • false—Looks up for not only ARP host routes, but also other routes. 	Default value is false.

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>
```



```

        </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>
    </RouteGroupEntry>
  </Ipv4StaticRouteGroup>
</StaticRoute>

```



```

<Description></Description>
<Permanent></Permanent>
<BackupPathAttribute>
  <BackupIfIndex></BackupIfIndex>
  <BackupNexthopIpv4Address></BackupNexthopIpv4Address>
</BackupPathAttribute>
<BfdAttribute>
  <BfdWorkMode></BfdWorkMode>
  <BfdSourceIpv4Address></BfdSourceIpv4Address>
</BfdAttribute>
<TrackEntryID></TrackEntryID>
<RecursiveHost></RecursiveHost>
</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.
NexthopVrfIndex	Nexthop VRF	Index	Unsigned integer.	When the configuration

Column name	Column description	Column type	Data type and restrictions	Remarks
	index.			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: <ul style="list-style-type: none"> true—Permanent route. false—Not a Permanent route. 	Default value is false.
BackupPathAttribute	Backup path attribute.	Data structure	Members include: <ul style="list-style-type: none"> BackupIfIndex. BackupNextHopIpv4Addresses. 	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.
BackupNextHopIp	Backup nexthop	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

Column name	Column description	Column type	Data type and restrictions	Remarks
v4Address	IPv4 address.			0.0.0.0 is an invalid value.
BfdAttribute	BFD attribute.	Data structure	Members include: <ul style="list-style-type: none"> BfdWorkMode. BfdSourceIpv4Address. 	N/A
BfdWorkMode	BFD work mode.	N/A	Enumeration: <ul style="list-style-type: none"> 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
RecursiveHost	Recursive lookup for ARP host routes.	N/A	Boolean: <ul style="list-style-type: none"> true—Looks up for only ARP host routes. false—Looks up for not only ARP host routes, but also other routes. 	Default value is false.

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>

```



```

    </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
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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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: <ul style="list-style-type: none"> • true—Permanent route. • false—Not a Permanent route. 	Default value is false.
BfdAttribute	BFD attribute.	Data structure	Members include: <ul style="list-style-type: none"> • BfdWorkMode. • BfdSourceIpv6Address. 	N/A
BfdWorkMode	BFD work mode.	N/A	Enumeration: <ul style="list-style-type: none"> • 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>
      <RecursiveHost></RecursiveHost>
    </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.
Preference	Route preference.	N/A	Unsigned integer. Value range: 1 to 255.	Default value is 60.

Column name	Column description	Column type	Data type and restrictions	Remarks
Description	Description information.	N/A	String, case-sensitive. Length: 1 to 60 characters.	N/A
Permanent	Permanent attribute.	N/A	Boolean: <ul style="list-style-type: none"> true—Permanent route. false—Not a permanent route. 	Default value is false.
BackupPathAttribute	Backup path attribute.	Data structure	Members include: <ul style="list-style-type: none"> BackupIfIndex. BackupNextHopIPv4Addresses. 	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 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: <ul style="list-style-type: none"> BfdWorkMode. BfdSourceIPv4Address. 	N/A
BfdWorkMode	BFD work mode.	N/A	Enumeration: <ul style="list-style-type: none"> 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
RecursiveHost	Recursive lookup for ARP host routes.	N/A	Boolean: <ul style="list-style-type: none"> true—Looks up for only ARP host routes. false—Looks up for not only ARP host routes, but also other routes. 	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
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>
    </RouteGroupEntry>
  </Ipv4StaticRouteGroup>
</StaticRoute>
```



```

    </BackupPathAttribute>
    <BfdAttribute>
        <BfdWorkMode></BfdWorkMode>
        <BfdSourceIpv4Address></BfdSourceIpv4Address>
    </BfdAttribute>
    <TrackEntryID></TrackEntryID>
    <RecursiveHost></RecursiveHost>
</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
DestVrflIndex	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.
NexthopVrflIndex	Nexthop VRF index.	Index	Unsigned integer.	When the configuration includes a valid ifIndex, NexthopVrflIndex should be set to the invalid VRF index 0xFFFF. 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.
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: <ul style="list-style-type: none"> • true—Permanent route. • false—Not a Permanent route. 	Default value is false.
BackupPathAttribute	Backup path attribute.	Data structure	Members include: <ul style="list-style-type: none"> • BackupIfIndex. • BackupNextHopIpv4Addresses. 	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: <ul style="list-style-type: none"> • BfdWorkMode. • BfdSourceIpv4Address. 	N/A
BfdWorkMode	BFD work mode.	N/A	Enumeration: <ul style="list-style-type: none"> • 1—Control-packet mode. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—Echo-packet mode. 	
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
RecursiveHost	Recursive lookup for ARP host routes.	N/A	Boolean: <ul style="list-style-type: none"> true—Looks up for only ARP host routes. false—Looks up for not only ARP host routes, but also other routes. 	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
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

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 “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: <ul style="list-style-type: none"> • true—Permanent route. • false—Not a Permanent route. 	Default value is false.
BfdAttribute	BFD attribute.	Data structure	Members include: <ul style="list-style-type: none"> • BfdWorkMode. • BfdSourceIpv6Address. 	N/A
BfdWorkMode	BFD work mode.	N/A	Enumeration: <ul style="list-style-type: none"> • 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

Message	Explanation
Route already exists. 路由已存在	Configuration already exists, when set new configuration.
Maximum number of routes has been reached. 已达到最大路由条数	Maximum number of routes has been reached.
Route does not exist. 路由不存在	The specified configuration doesn't exist, when getting or deleting it.
The specified VRF index does not exist. 目的VRF索引不存在	Please create vpn-instance first.
The specified next hop VRF index does not exist. 下一跳VRF索引不存在	Please create vpn-instance first.
The interface is not supported. 接口不支持	Only routed ports are available.
Invalid destination address. 目的地址无效	Only class A,class B,class C addresses are available.
Invalid next hop address. 下一跳无效	Only class A,class B,class C addresses are available.
Nexthop address or outbound interface must be specified one. 下一跳地址或者出接口索引必须至少设置一个	Nexthop address or outbound interface must be specified one.
The specified interface need to configure next hop address. 该接口需要配置下一跳地址	The specified interface need to configure next hop address.
The specified interface does not need to configure next hop address. 该接口不需要配置下一跳	The specified interface does not need to configure next hop address.
The backup interface is not supported. 备份接口不支持	Only routed ports are available.
The specified backup interface index need backup next hop address. 该备份出接口需要配置备份下一跳地址	The specified backup interface index need backup next hop address.
Invalid backup next hop address. 备份下一跳无效	The backup next hop address can not be all zero address.
Not need bfd source address to enable bfd, with outbound interface and nexthop have been configured. 静态路由已配置出接口及下一跳，使能BFD检测无需配置BFD源地址	Not need bfd source address to enable bfd, with outbound interface and nexthop have been configured.

Need bfd source address to enable bfd, if only nexthop address configured. 静态路由仅配置下一跳，使能BFD检测必须配置BFD源地址	Need bfd source address to enable bfd, if only nexthop address configured.
Invalid BFD source IP address. BFD源地址无效	Only class A,class B,class C addresses are available.
BFD can not coexist with backup attribute. 静态路由的备份路径属性不能与BFD共存	BFD can not coexist with backup attribute.
Track can not coexist with backup attribute. 静态路由的备份路径属性不能与track共存	Track can not coexist with backup attribute.
BFD can not coexist with track attribute. 静态路由的track属性不能与BFD共存	BFD can not coexist with track attribute.
Next hop VRF index should be set to . 下一跳VRF索引应该填	Next hop VRF index should be set to specified value.
The specified backup interface index does not need backup next hop address. 该备份接口不需要备份下一跳	The specified backup interface index does not need backup next hop address.
Interface has to be valid for a link-local address of nexthop. Link-local地址作为下一跳需要指定有效出接口	Interface has to be valid for a link-local address of nexthop.
Can not enable bfd echo mode for a link-local address of nexthop. Link-local地址作为下一跳不能使能BFD echo检测	Can not enable bfd echo mode for a link-local address of nexthop.
Backup interface can not been configured. 不允许配置备份出接口	Backup interface can not been configured when out interface is NULL0.
Can not enable bfd echo mode, if only next hop address configured. 静态路由仅配置下一跳，BFD Echo检测不可用	Please specify out interface.
The backup interface and next hop address can't be the same with the main interface and next hop address. 备份出接口及下一跳不能与主出接口及下一跳相同	The backup interface and next hop address can't be the same with the main interface and next hop address.
Not support BFD. 不支持BFD	BFD service has not been started.
The interface does not support BFD. 指定接口不支持BFD	BFD can not been configured when out interface is NULL0.
The specified interface index does not exist. 接口不存在	The specified interface index does not exist.
The specified backup interface index does not exist. 备份接口索引不存在	The specified backup interface index does not exist.
BFD can not coexist with permanent attribute. 静态路由的永久属性不能与BFD共存	BFD can not coexist with permanent attribute.

Track can not coexist with permanent attribute. 静态路由的永久属性不能与track共存	Track can not coexist with permanent attribute.
Please input BFD source IP address. 请输入BFD源IP地址	Please input BFD source IP address.
The specified topology index does not exist. 目的MT索引不存在	The specified topology index does not exist.
The VRF does not support topology. 私网下不支持多拓扑配置	DestTopologyIndex should be specified as zero.
The topology route does not support VRF next hop. 多拓扑路由不支持私网下一跳	DestTopologyIndex should be specified as zero.
The topology route does not support BFD. 多拓扑路由不支持关联BFD配置	DestTopologyIndex should be specified as zero.
The topology route does not support track. 多拓扑路由不支持关联track配置	DestTopologyIndex should be specified as zero.
The topology route does not support permanent attribute. 多拓扑路由不支持配置永久属性	DestTopologyIndex should be specified as zero.
Interface and Recursive look up host-route can't both be configured 出接口和迭代主机路由不能同时配置	Interface and Recursive look up host-route can't both be configured

StaticRoute/Ipv6StaticRouteConfigurations

Message	Explanation
Route already exists. 路由已存在	Configuration already exists, when set new configuration.
Maximum number of routes has been reached. 已达到最大路由条数	Maximum number of routes has been reached.
Route does not exist. 路由不存在	The specified configuration doesn't exist, when getting or deleting it.
The specified VRF index does not exist. 目的VRF索引不存在	Please create vpn-instance first.
The specified next hop VRF index does not exist. 下一跳VRF索引不存在	Please create vpn-instance first.
The interface is not supported. 接口不支持	Only routed ports are available.
Invalid destination address. 目的地址无效	Only class A,class B,class C addresses are available.
Invalid next hop address.	Only class A,class B,class C addresses are available.

下一跳无效	
<p>Nexthop address or outbound interface must be specified one.</p> <p>下一跳地址或者出接口索引必须至少设置一个</p>	Nexthop address or outbound interface must be specified one.
<p>The specified interface need to configure next hop address.</p> <p>该接口需要配置下一跳地址</p>	The specified interface need to configure next hop address.
<p>The specified interface does not need to configure next hop address.</p> <p>该接口不需要配置下一跳</p>	The specified interface does not need to configure next hop address.
<p>The backup interface is not supported.</p> <p>备份接口不支持</p>	Only routed ports are available.
<p>The specified backup interface index need backup next hop address.</p> <p>该备份出接口需要配置备份下一跳地址</p>	The specified backup interface index need backup next hop address.
<p>Invalid backup next hop address.</p> <p>备份下一跳无效</p>	The backup next hop address can not be all zero address.
<p>Not need bfd source address to enable bfd, with outbound interface and nexthop have been configured.</p> <p>静态路由已配置出接口及下一跳，使能BFD检测无需配置BFD源地址</p>	Not need bfd source address to enable bfd, with outbound interface and nexthop have been configured.
<p>Need bfd source address to enable bfd, if only nexthop address configured.</p> <p>静态路由仅配置下一跳，使能BFD检测必须配置BFD源地址</p>	Need bfd source address to enable bfd, if only nexthop address configured.
<p>Invalid BFD source IP address.</p> <p>BFD源地址无效</p>	Only class A,class B,class C addresses are available.
<p>BFD can not coexist with backup attribute.</p> <p>静态路由的备份路径属性不能与BFD共存</p>	BFD can not coexist with backup attribute.
<p>Track can not coexist with backup attribute.</p> <p>静态路由的备份路径属性不能与track共存</p>	Track can not coexist with backup attribute.
<p>BFD can not coexist with track attribute.</p> <p>静态路由的track属性不能与BFD共存</p>	BFD can not coexist with track attribute.
<p>Next hop VRF index should be set to .</p> <p>下一跳VRF索引应该填</p>	Next hop VRF index should be set to specified value.
<p>The specified backup interface index does not need backup next hop address.</p> <p>该备份接口不需要备份下一跳</p>	The specified backup interface index does not need backup next hop address.
<p>Interface has to be valid for a link-local address of nexthop.</p> <p>Link-local地址作为下一跳需要指定有效出接口</p>	Interface has to be valid for a link-local address of nexthop.
<p>Can not enable bfd echo mode for a link-local address of nexthop.</p> <p>Link-local地址作为下一跳不能使能BFD echo检测</p>	Can not enable bfd echo mode for a link-local address of nexthop.

Backup interface can not been configured. 不允许配置备份出接口	Backup interface can not been configured when out interface is NULL0.
Can not enable bfd echo mode, if only next hop address configured. 静态路由仅配置下一跳，BFD Echo检测不可用	Please specify out interface.
The backup interface and next hop address can't be the same with the main interface and next hop address. 备份出接口及下一跳不能与主出接口及下一跳相同	The backup interface and next hop address can't be the same with the main interface and next hop address.
Not support BFD. 不支持BFD	BFD service has not been started.
The interface does not support BFD. 指定接口不支持BFD	BFD can not been configured when out interface is NULL0.
The specified interface index does not exist. 接口不存在	The specified interface index does not exist.
The specified backup interface index does not exist. 备份接口索引不存在	The specified backup interface index does not exist.
BFD can not coexist with permanent attribute. 静态路由的永久属性不能与BFD共存	BFD can not coexist with permanent attribute.
Track can not coexist with permanent attribute. 静态路由的永久属性不能与track共存	Track can not coexist with permanent attribute.
Invalid next hop IPv6 address. It must be a global unicast address. 无效下一跳地址。下一跳必须是全球单播地址	Invalid next hop IPv6 address. It must be a global unicast address.
Invalid BFD source IPv6 address. BFD源IPv6地址无效	The BFD source IPv6 address cannot be all 0s ,multicast address or loopback address.,.
Please input BFD source IPv6 address. 请输入BFD源IPv6地址	Please input BFD source IPv6 address.
IPv6 address family does not support topology. IPv6地址族不支持多拓扑配置	DestTopologyIndex should be specified as zero.
Please input BFD source IP address. 请输入BFD源IP地址	Please input BFD source IP address.
The specified topology index does not exist. 目的MT索引不存在	The specified topology index does not exist.
The VRF does not support topology. 私网下不支持多拓扑配置	DestTopologyIndex should be specified as zero.
The topology route does not support VRF next hop. 多拓扑路由不支持私网下一跳	DestTopologyIndex should be specified as zero.
The topology route does not support BFD. 多拓扑路由不支持关联BFD配置	DestTopologyIndex should be specified as zero.
The topology route does not support track.	DestTopologyIndex should be specified as zero.

多拓扑路由不支持关联track配置	
The topology route does not support permanent attribute. 多拓扑路由不支持配置永久属性	DestTopologyIndex should be specified as zero.
Interface and Recursive look up host-route can't both be configured 出接口和迭代主机路由不能同时配置	Interface and Recursive look up host-route can't both be configured

Openconfig-local-routing/local-routes/static-routes/static

Message	Explanation
It is not STATIC 不是静态路由协议号	The identifier should be specified as STATIC.
Instance name must be default 进程号必须为default	Instance name must be default when you configure a static route.

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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: <ul style="list-style-type: none">true—Enables STP.false—Disables STP.

Column name	Column description	Column type	Data type and restrictions
BPDUProtect	Global BPDU guard function	N/A	Boolean: <ul style="list-style-type: none"> true—Enables BPDU guard. false—Disables BPDU guard (default).
Mode	Working mode of the spanning tree protocol	N/A	Enumeration: <ul style="list-style-type: none"> 0—STP. 2—RSTP. 3—MSTP(default). 4—PVST.
TcProtect	Global TC-BPDU guard function	N/A	Boolean: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> Value range:1-255. Default: 6.
PathCostMethod	Path cost calculation method	N/A	Enumeration: <ul style="list-style-type: none"> 0—Legacy (default). 1—802.1D-1998. 2—802.1t.
HelloTime	Hello timer in seconds	N/A	Unsigned integer. <ul style="list-style-type: none"> Value range:1-10. Default: 2.
MaxHops	Maximum hops of the MST region scope	N/A	Unsigned integer. <ul style="list-style-type: none"> Value range:1-40. Default: 20.
MaxAge	Maximum of message aging timer	N/A	Unsigned integer. <ul style="list-style-type: none"> Value range:6-40. Default: 20.
ForwardDelay	Forwarding delay timer in seconds	N/A	Unsigned integer. <ul style="list-style-type: none"> Value range:4-30. Default: 15.
TcSnooping	TC snooping function	N/A	Boolean: <ul style="list-style-type: none"> true—Enables TC snooping. false—Disables TC snooping(default).
DigestSnooping	Global MST digest snooping function	N/A	Boolean: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none">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. <ul style="list-style-type: none">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).	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Force-true. 2—Force-false. 3—Auto (default). 	
RootProtect	Interface root guard function	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enables role restriction. false—Disables role restriction (default).
TcRestrict	Interface TC restriction function	N/A		Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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. <ul style="list-style-type: none"> 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	StilInterfaces
Table type	Multi-instance table
Row name	StilInterface
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. <ul style="list-style-type: none">• Value range: 0-4094.
IfIndex	Interface index	Index	Unsigned integer.
Priority	Spanning tree priority of an interface	N/A	Unsigned integer. <ul style="list-style-type: none">• 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. <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> HelloTime. MaxAge. ForwardDelay. 	
HelloTime	Hello timer in seconds	N/A	Unsigned integer. <ul style="list-style-type: none"> Value range:1-10. Default: 2. 	
MaxAge	Maximum of message age	N/A	Unsigned integer. <ul style="list-style-type: none"> Value range:6-40. Default: 20. 	
ForwardDelay	Forwarding delay timer in seconds	N/A	Unsigned integer. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">true—Enabled.false—Disabled.
BPDUProtect	Global BPDU guard function	N/A	Boolean: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> • 0—STP. • 2—RSTP. • 3—MSTP. • 4—PVST.
TcProtect	Global TC-BPDU guard function	N/A	Boolean: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true—Enables TC snooping. • false—Disables TC snooping.
DigestSnooping	Global MST digest snooping function	N/A	Boolean: <ul style="list-style-type: none"> • 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.	<ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
EdgedPort	Interface edge port configuration	N/A	Boolean: <ul style="list-style-type: none"> true—Edge port. false—Non-edge port.
OperEdgedPort	Interface operational edge port status	N/A	Boolean: <ul style="list-style-type: none"> true—Edge port. false—Non-edge port.
PointToPoint	Interface point-to-point configuration status	N/A	Enumeration: <ul style="list-style-type: none"> 1—Force-true. 2—Force-false. 3—Auto.
OperPointToPoint	Interface operational point-to-point status	N/A	Boolean: <ul style="list-style-type: none"> true—Point-to-Point. false—Not point-to-point.
RootProtect	Interface root guard function	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
LoopProtect	Interface loop guard function	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
RoleRestrict	Interface role restriction function	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
TcRestrict	Interface TC restriction function	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled.
ProtectDown	Interface protection shutdown status	N/A	Enumeration: <ul style="list-style-type: none"> 0—Not shutdown. 1—Edge Port down. 2—PVST BPDU down.
DigestSnooping	Interface MST digest snooping function	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> HelloTime. ForwardDelay.

Column name	Column description	Column type	Data type and restrictions
			<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 1—Discarding. • 2—Learning. • 3—Forwarding. 	N/A
ProtectBlock	Reason for blocking a protection function	N/A	Unsigned integer. <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Normal. 1—Secondary root. 2—Primary root. 	N/A
BridgeTimes	Bridge timers per VLAN	N/A	Struct, include members: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—Discarding. 2—Learning. 3—Forwarding. 	N/A
ProtectBlock	Reason for blocking a protection function	N/A	Unsigned integer. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Rapid transition. false—Slow transition. 	N/A
PortTimes	Interface protocol timers	N/A	Struct, include members: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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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STP

STP/Base

Message	Explanation
"Failed to enable spanning tree protocol, since Tc-Snooping is enabled." "已经开启Tc-Snooping功能，使能生成树协议失败。"	Tc-Snooping 功能与使能生成树协议功能互斥
"Failed to enable Tc-Snooping, since spanning tree protocol is enable." "已经使能生成树协议，开启Tc-Snooping功能失败。"	Tc-Snooping 功能与使能生成树协议功能互斥
"Spanning tree protocol and Tc-snooping can't be enable together." "不能同时使能STP和开启Tc-snooping功能。"	

STP/StiVlans

Message	Explanation
"Cannot configure the VLAN-to-instance mapping for the CIST." "不能配置CIST的VLAN映射关系。"	CIST的VLAN映射关系不可配置
"Cannot configure the VLAN-to-instance mapping for the CIST." "不能配置CIST的VLAN映射关系。"	CIST的VLAN映射关系不可配置
"Cannot configure the VLAN-to-instance mapping for the CIST." "不能配置CIST的VLAN映射关系。"	CIST的VLAN映射关系不可配置

STP/Interfaces

Message	Explanation
"The 'LoopProtect' and 'EdgePort' configurations are mutually exclusive." "端口上不能同时配置环路保护和边缘端口。"	端口上不能同时配置环路保护和边缘端口，两条命令互斥。
The 'LoopProtect' and 'RootProtect' configurations are mutually exclusive. "端口上不能同时配置根保护和环路保护。"	端口上不能同时配置根保护和环路保护，两条命令互斥。

STP/STIs

Message	Explanation
"Configuration Priority is not allowed when the root type is configured as primary root or secondary root." "如果设备是根桥或者备份根桥，优先级和设备之间不能产生冲突。"	设备是根桥或者备份根桥，优先级和设备之间不能产生冲突。 根桥优先级 0，备份根桥优先级4096.
"Configuration Roottype is not replaced when the Priority is empty." "replace操作中，如果设备是根桥或者备份根桥，必须同时配置优先级。"	配置了优先级后，不能再配置与优先级冲突的根桥或备份根桥。 根桥优先级 0，备份根桥优先级4096.
"No enough hardware resources." "硬件资源不足。"	STG 资源不足
"Only 65 instances are supported." "最多只支持65个实例。"	MSTI最多运行65个实例
"The value of device priority must be a multiple of 4096." "设备优先级必须是4096的倍数。"	设备优先级必须是4096的倍数。
"When the create or merge operation is issued, configuration data should be specified." "Create、merge操作中，不能只有索引列，属性列必须有数据。"	Create、merge操作中，不能只有索引列，属性列必须有数据

STP/StInterfaces

Message	Explanation
"When the create or merge operation is issued, configuration data should be specified." "Create、merge操作中，不能只有索引列，属性列必须有数据。"	Create、merge操作中，不能只有索引列，属性列必须有数据
"The path cost value is out of the valid range." "端口路径开销值不在范围内。"	路径开销范围不合法
"The value of port priority must be a multiple of 16." "端口优先级必须是16的倍数。"	端口优先级必须是16的倍数

STP/Vlans

Message	Explanation
"Configuration Priority is not allowed when the root type is configured as primary root or secondary root." "如果设备是根桥或者备份根桥，优先级和设备之间不能产生冲突。"	设备是根桥或者备份根桥，优先级和设备之间不能产生冲突。 根桥优先级 0，备份根桥优先级4096.

<p>"Configuration Roottype is not replaced when the Priority is empty."</p> <p>"replace操作中，如果设备是根桥或者备份根桥，必须同时配置优先级。"</p>	<p>配置了优先级后，不能再配置与优先级冲突的根桥或备份根桥。根桥优先级 0，备份根桥优先级4096。</p>
<p>"No enough hardware resources."</p> <p>"硬件资源不足。"</p>	<p>STG 资源不足</p>
<p>"The value of device priority must be a multiple of 4096."</p> <p>"设备优先级必须是4096的倍数。"</p>	<p>设备优先级配置必须是4096的倍数。</p>
<p>"When the create or merge operation is issued, configuration data should be specified."</p> <p>"Create、merge操作中，不能只有索引列，属性列必须有数据。"</p>	<p>Create、merge操作中，不能只有索引列，属性列必须有数据</p>

STP/VlanInterfaces

Message	Explanation
<p>"When the create or merge operation is issued, configuration data should be specified."</p> <p>"Create、merge操作中，不能只有索引列，属性列必须有数据。"</p>	<p>Create、merge操作中，不能只有索引列，属性列必须有数据</p>
<p>"The path cost value is out of the valid range."</p> <p>"端口路径开销值不在范围内。"</p>	<p>路径开销范围不合法</p>
<p>"The value of port priority must be a multiple of 16."</p> <p>"端口优先级必须是16的倍数。"</p>	<p>端口优先级必须是16的倍数</p>

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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: <ul style="list-style-type: none">• 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.	<p>The default is as follows:</p> <ul style="list-style-type: none"> 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	<p>The string is case sensitive.</p> <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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.	<p>The default is as follows:</p> <ul style="list-style-type: none"> 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.	<p>The composition types are as follows:</p> <ul style="list-style-type: none">• 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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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: <ul style="list-style-type: none">enable (default).disable.
BufferSize	Maximum log buffer size configured by the user	N/A	Unsigned integer. Value range: 0 to 65535.

Syslog/LogHosts

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

Column name	Column description	Column type	Data type and restrictions	Remarks
Facility	Logging facility used by the log host	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • enable (default). • disable.
DuplicateLogSuppression	Status of the duplicate log suppression feature	N/A	Enumeration: <ul style="list-style-type: none"> • enable. • disable (default).

Syslog/OutputRules

This table contains information about syslog (the information center) output rules.

XML structure

```
<Syslog>
  <OutputRules>
    <OutputRule>
      <Destination></Destination>
      <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: <ul style="list-style-type: none">1-Console2-Monitor terminal3-Log buffer4-Log host5-Log file	N/A
MouduleName	Specifies a module by its name.	Index	A case-insensitive string. Length: 1 to 8 characters.	For instance to output FTP information, specify this argument as FTP (or ftp for case-insensitive). 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				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	<p>Enumeration string:</p> <ul style="list-style-type: none"> • emergency • alert • critical • error • warning • notification • informational • debugging • deny 	<p>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.</p> <p>alert: Action must be taken immediately (severity=1)</p> <p>critical : Critical conditions (severity=2)</p> <p>debugging: Debug-level messages (severity=7)</p> <p>emergency: System is unusable (severity=0)</p> <p>error: Error conditions (severity=3)</p> <p>informational: Informational messages (severity=6)</p> <p>notification: Normal but significant conditions (severity=5)</p> <p>warning: Warning conditions (severity=4)</p> <p>deny: Disable log output.</p>

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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• enable.• disable.
DuplicateLogSuppression	Status of the duplicate log suppression feature	N/A	Enumeration: <ul style="list-style-type: none">• 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

Row name	OutputRule
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Destination	Specifies syslog output destination	Index	Enumeration: <ul style="list-style-type: none"> 1-Console 2-Monitor terminal 3-Log buffer 4-Log host 5-Log file 	N/A
ModuleName	Specifies a module by its name.	Index	A case-insensitive 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: <ul style="list-style-type: none"> 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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Syslog1

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 Syslog/LogBuffer1

Syslog

Syslog/LogHosts

Message	Explanation
Maximum number of log hosts already reached.	Create log host failed.
Invalid address.	Create log host failed.

Syslog/LogBuffer

Message	Explanation
The value of BufferSize can't exceed %u.	The buffer size can't exceed the max size.

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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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Table description.....	8
Columns.....	8

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: <ul style="list-style-type: none">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
RealAcctInterval	Realtime accounting	N/A	Unsigned integer.	Default: 12 minutes.

Column name	Column description	Column type	Data type and restrictions	Remarks
	interval		Value range: 0 to 60, in 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: <ul style="list-style-type: none"> 0—keep-original. 1—with-domain. 2—without-domain. 	Default: 1
BytesUnit	Data flow measurement unit for traffic statistics	N/A	Enumeration: <ul style="list-style-type: none"> 0—byte. 1—kilo-byte. 2—mega-byte. 3—giga-byte. 	Default: 0
PacketsUnit	Packet measurement unit for traffic statistics	N/A	Enumeration: <ul style="list-style-type: none"> 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
AuthorKey	Shared key for secure HWTACACS	N/A	In non-FIPS mode, the shared key is a string of 1 to 255 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	authorization communication		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.	
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
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 2—FQDN. 	The value 2 for IpType is not supported currently. 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.
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. When the IpType value is 1, this column represents the IPv6 address of the server. 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	Service port number of the TACACS authentication server	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49
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	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			contain digits, uppercase letters, lowercase letters, and special characters.	
SingleConn	Whether to use the same TCP connection for authentication packet exchange for all users	N/A	Boolean: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 2—FQDN. 	The value 2 for IpType is not supported currently. 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.
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. When the IpType value is 1, this column represents the IPv6 address of the server. 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	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
SingleConn	Whether to use the same TCP connection for authorization packet exchange for	N/A	Boolean: <ul style="list-style-type: none"> true false 	Default: false

Column name	Column description	Column type	Data type and restrictions	Remarks
	all users			

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	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	scheme name		Length: 1 to 32 characters.	
Priority	Priority	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 2—FQDN. 	The value 2 for IpType is not supported currently. 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.
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. When the IpType value is 1, this column represents the IPv6 address of the server. 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	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: <ul style="list-style-type: none"> true false 	Default: false

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XML structure.....	17
Table description.....	18
Columns.....	18

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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> • 0—keep-original. • 1—with-domain. • 2—without-domain. 	Default: 1
BytesUnit	Data flow measurement unit for traffic statistics	N/A	Enumeration: <ul style="list-style-type: none"> • 0—byte. • 1—kilo-byte. • 2—mega-byte. • 3—giga-byte. 	Default: 0
PacketsUnit	Packet measurement unit for traffic statistics	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 2—FQDN. 	The value 2 for IpType is not supported currently. 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.
Host	TACACS authentication server	Index	IPv4: String, dotted decimal notation. IPv6: Hexadecimal string, colon-separated. FQDN: String of 1 to 255	When the IpType value is 0, this column represents the IPv4 address of the server. When the IpType value is 1, this column represents

Column name	Column description	Column type	Data type and restrictions	Remarks
			characters.	the IPv6 address of the server. 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	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: <ul style="list-style-type: none"> true false 	Default: false
State	Status of the TACACS authentication server	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 2—FQDN. 	The value 2 for IpType is not supported currently. 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.
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. When the IpType value is 1, this column represents the IPv6 address of the server. 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	Service port number of the TACACS	Index	Unsigned integer. Value range: 1 to 65535.	Default: 49

Column name	Column description	Column type	Data type and restrictions	Remarks
	authorization server			
SingleConn	Whether to use the same TCP connection for authorization packet exchange for all users	N/A	Boolean: <ul style="list-style-type: none"> true false 	Default: false
State	Status of the TACACS authorization server	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 2—FQDN. 	The value 2 for IpType is not supported currently. 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.
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. When the IpType value is 1, this column represents the IPv6 address of the server. 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	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: <ul style="list-style-type: none"> true false 	Default: false

Column name	Column description	Column type	Data type and restrictions	Remarks
State	Status of the TACACS accounting server	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 0—IPv4.• 1—IPv6.• 2—FQDN.	The value 2 for IpType is not supported currently. 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.
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. When the IpType value is 1, this column represents the IPv6 address of the server. 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	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	N/A	Unsigned integer. Value range: 0 to 65535.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	exchanged with the TACACS authentication server			
PendingRequest	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
ReqChangePass	Number of password change requests	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
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

Column name	Column description	Column type	Data type and restrictions	Remarks
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>

```



```

    </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: <ul style="list-style-type: none"> 0—IPv4. 1—IPv6. 2—FQDN. 	The value 2 for IpType is not supported currently. 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.
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. When the IpType value is 1, this column represents the IPv6 address of the server. 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	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
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 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
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>
        <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: <ul style="list-style-type: none"> • 0—IPv4. • 1—IPv6. • 2—FQDN. 	The value 2 for IpType is not supported currently. 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.
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. When the IpType value is 1, this column represents the IPv6 address of the server. 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	Service port number of the TACACS accounting 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 accounting server	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
PendingRequests	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

Column name	Column description	Column type	Data type and restrictions	Remarks
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	<ul style="list-style-type: none"> The configuration takes effect on the following items: <ul style="list-style-type: none"> Tacacs/Schemes table <code><AuthenKey></AuthenKey></code> <code><AuthorKey></AuthorKey></code> <code><AcctKey></AcctKey></code> Tacacs/AuthServers table <code><Key></Key></code> Tacacs/AuthorServers table <code><Key></Key></code> Tacacs/AcctServers table <code><Key></Key></code> 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
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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 - Tacacs/Schemes2
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 - Tacacs/AuthorServers.....2
 - Tacacs/AcctServers.....3

Tacacs

Tacacs/GlobalNasIps

Message	Explanation
Maximum number of NAS-IP addresses already reached.	Maximum number of NAS-IP addresses already reached.
Invalid IP address.	Invalid IP address.

Tacacs/Schemes

Message	Explanation
Invalid IP address.	Invalid IP address.
The number of HWTACACS schemes has reached the maximum.	The number of HWTACACS schemes has reached the maximum.
The HWTACACS scheme does not exist.	The HWTACACS scheme does not exist.

Tacacs/AuthServers

Message	Explanation
Invalid IP address.	Invalid IP address.
The server doesn't exist.	The server doesn't exist.
The IP addresses of the primary and secondary servers must be different.	The IP addresses of the primary and secondary servers must be different.
Maximum number of TACACS servers already reached.	Maximum number of TACACS servers already reached.

Tacacs/AuthorServers

Message	Explanation
Invalid IP address.	Invalid IP address.
The server doesn't exist.	The server doesn't exist.
The IP addresses of the primary and secondary servers must be different.	The IP addresses of the primary and secondary servers must be different.
Maximum number of TACACS servers already reached.	Maximum number of TACACS servers already reached.

Tacacs/AcctServers

Message	Explanation
Invalid IP address.	Invalid IP address.
The server doesn't exist.	The server doesn't exist.
The IP addresses of the primary and secondary servers must be different.	The IP addresses of the primary and secondary servers must be different.
Maximum number of TACACS servers already reached.	Maximum number of TACACS servers already reached.

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XML structure	3
Table description.....	3
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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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 0—ALL 1—OSPF 2—ISIS 	N/A
Statistic	Enable statistic for TE tunnel.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled(default). 	N/A
ServiceClass Statistic	Enable statistic for TE tunnel based on service class.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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	3
Table description	3
Columns	4
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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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 0—ALL 1—OSPF 2—ISIS 	N/A
Statistic	Enable statistic for TE tunnel.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
ServiceClassStatistic	Enable statistic for TE tunnel based on service class.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Supported. false—Not supported 	N/A
ProtectionOnetoone	Support for onetoone protection mode	N/A	Boolean: <ul style="list-style-type: none"> true—Supported. false—Not supported 	N/A
ProtectionOnplusone	Support for onepusone protection mode	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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

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Columns	3

TelemetryPBSR

TelemetryPBSR/PBSRConfiguration

This table is used to configure the global configurations for the protobuf buffer status report (PBSR) function.

Caution: The columns "SourceIpv4Address", "SourcePort", "DestIpv4Address", and "DestPort" must be created or deleted together.

XML structure

```
<TelemetryPBSR>
  <PBSRConfiguration>
    <PortCount></PortCount>
    <Interval></Interval>
    <SourceIpv4Address></SourceIpv4Address>
    <SourcePort></SourcePort>
    <DestIpv4Address></DestIpv4Address>
    <DestPort></DestPort>
    <VlanID></VlanID>
  </PBSRConfiguration>
</TelemetryPBSR>
```

Table description

Item	Description
Feature name	TelemetryPBSR
Table name	PBSRConfiguration
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
PortCount	Number of ports	N/A	Unsigned integer.	N/A
Interval	Interval for sending the PBSR to the server	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SourceIPv4Address	Source IP address	N/A	String. IPv4 address string or IPv6 address string.	N/A
SourcePort	Source port number	N/A	Unsigned integer.	N/A
DestIPv4Address	Destination IP address	N/A	String. IPv4 address string or IPv6 address string.	N/A
DestPort	Destination port number	N/A	Unsigned integer.	N/A
VlanID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

TelemetryPBSR/PortPbsrConfigurations

This table is used to configure the interface for the PBSR function.

XML structure

```

<TelemetryPBSR>
  <PortPbsrConfigurations>
    <PortPbsrConfiguration>
      <IfIndex></IfIndex>
      <State></State>
    </PortPbsrConfiguration>
  </PortPbsrConfigurations>
</TelemetryPBSR>

```

Table description

Item	Description
Feature name	TelemetryPBSR
Table name	PortPbsrConfigurations
Table type	Multi-instance table
Row name	PortPbsrConfiguration
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.
State	Active PBSR function	N/A	Boolean: <ul style="list-style-type: none">• true.• false.	N/A

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TelemetryPBSR/PortPbsrConfigurations	2
XML structure.....	2
Table description.....	2
Columns	2

TelemetryPBSR

TelemetryPBSR/PBSRConfiguration

This table is used to get the global telemetry PBSR configuration.

XML structure

```
<TelemetryPBSR>
  <PBSRConfiguration>
    <PortCount></PortCount>
    <Interval></Interval>
    <SourceIpv4Address></SourceIpv4Address>
    <SourcePort></SourcePort>
    <DestIpv4Address></DestIpv4Address>
    <DestPort></DestPort>
    <VlanID></VlanID>
  </PBSRConfiguration>
</TelemetryPBSR>
```

Table description

Item	Description
Feature name	TelemetryPBSR
Table name	PBSRConfiguration
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortCount	Number of ports	N/A	Unsigned integer.	N/A
Interval	Interval for sending the PBSR to the server	N/A	Unsigned integer.	Interval of the sending timer.
SourceIpv4Address	Source IP address	N/A	String. IPv4 address string or IPv6 address string.	Example: 1.1.1.1
SourcePort	Source port	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DestIpv4Address	Destination IP address	N/A	String. IPv4 address string or IPv6 address string.	Example: 1.1.1.1
DestPort	Destination port	N/A	Unsigned integer.	N/A
VlanID	VLAN ID	N/A	Unsigned integer. Value range: 1 to 4094.	N/A

TelemetryPBSR/PortPbsrConfigurations

This table is used to configure the interface for the telemetry PBSR function.

XML structure

```

<TelemetryPBSR>
  <PortPbsrConfigurations>
    <PortPbsrConfiguration>
      <IfIndex></IfIndex>
      <State></State>
    </PortPbsrConfiguration>
  </PortPbsrConfigurations>
</TelemetryPBSR>

```

Table description

Item	Description
Feature name	TelemetryPBSR
Table name	PortPbsrConfigurations
Table type	Multi-instance table
Row name	PortPbsrConfiguration
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

Column name	Column description	Column type	Data type and restrictions	Remarks
				Reference.
State	Active PBSR function	N/A	Boolean: <ul style="list-style-type: none"> • true. • false. 	N/A

Contents

- TELNET 1
 - TELNET/Server 1
 - XML structure 1
 - Table description 1
 - Columns 1

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: <ul style="list-style-type: none">enable Enable TELNET Serverdisable 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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- TELNET 1
 - TELNET/Capabilities 1
 - XML structure 1
 - Table description 1
 - Columns 1
 - TELNET/Server 1
 - XML structure 1
 - Table description 2
 - 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: <ul style="list-style-type: none">truefalse

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: <ul style="list-style-type: none"> 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.

Contents

TELNET 1

 TELNET/Server..... 1

TELNET

TELNET/Server

Message	Explanation
Failed to enable TELNET server. 使能TELNET server失败.	When the telnet service port number has been used by other services, it does not support to enable TELNET server.
Failed to specify ACL. 配置ACL失败.	If the ACL configuration can't be processed by the daemon of Telnet, the specified ACL configuration will fail.
Failed to specify DSCP. 配置DSCP失败.	If the DSCP configuration can't be processed by the daemon of Telnet, the specified DSCP configuration will fail.
Failed to specify port 配置端口失败.	If TELNET server has been enabled, the port number that has been used does not support configuration.

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XML structure	3
Table description	4
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: <ul style="list-style-type: none"> StartTime. StartDate. 	<ul style="list-style-type: none"> 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	String. Format: hh:mm:ss. Value range: 00:00:00 to 23:59:59.	N/A
StartDate	Start date of an absolute statement	N/A	String. 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: <ul style="list-style-type: none"> EndTime. EndDate. 	<ul style="list-style-type: none"> 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	String. Format: hh:mm:ss. Value range: 00:00:00 to 24:00:00.	N/A
EndDate	End date of an absolute statement	N/A	String. 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.

Column name	Column description	Column type	Data type and restrictions	Remark
StartTime	Start time of a periodic statement	N/A	String. Format: hh:mm. Value range: 00:00 to 23:59.	<ul style="list-style-type: none"> 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.
EndTime	End time of a periodic statement	N/A	String. Format: hh:mm. Value range: 00:00 to 24:00.	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Sun. Mon. Tue. Wed. Thu. Fri. Sat. 	<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Specified. false—Not specified (default). 	N/A
Mon	Monday	N/A	Boolean: <ul style="list-style-type: none"> true—Specified. false—Not specified (default). 	N/A
Tue	Tuesday	N/A	Boolean: <ul style="list-style-type: none"> true—Specified. false—Not specified (default). 	N/A
Wed	Wednesday	N/A	Boolean: <ul style="list-style-type: none"> true—Specified. false—Not specified (default). 	N/A

Column name	Column description	Column type	Data type and restrictions	Remark
Thu	Thursday	N/A	Boolean: <ul style="list-style-type: none"> • true—Specified. • false—Not specified (default). 	N/A
Fri	Friday	N/A	Boolean: <ul style="list-style-type: none"> • true—Specified. • false—Not specified (default). 	N/A
Sat	Saturday	N/A	Boolean: <ul style="list-style-type: none"> • 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	4
Columns	4

TimeRange

TimeRange/TimeRanges

This table contains time range information.

XML structure

```
<TimeRange>
  <TimeRanges>
    <Range>
      <Name></Name>
      <Status></Status>
      <Inuse></Inuse>
    </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: <ul style="list-style-type: none">1—Active.2—Inactive.
Inuse	Application status	N/A	Boolean: <ul style="list-style-type: none">true—In use.false—Not in use.

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

Column name	Column description	Column type	Data type and restrictions	Remarks
Start	Start time and date of an absolute statement	Data structure	Members include: <ul style="list-style-type: none"> StartTime. StartDate. 	The two members must both be specified.
StartTime	Start time of an absolute statement	N/A	String. Format: hh:mm:ss. Value range: 00:00:00 to 23:59:59.	N/A
StartDate	Start date of an absolute statement.	N/A	String. 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: <ul style="list-style-type: none"> EndTime. EndDate. 	The two members must both be specified.
EndTime	End time of an absolute statement	N/A	String. Format: hh:mm:ss. Value range: 00:00:00 to 24:00:00.	N/A
EndDate	End date of an absolute statement	N/A	String. 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>

```



```

        </DayOfWeek>
    </PerRange>
</PerRanges>
</TimeRange>

```

Table description

Item	Description
Feature name	TimeRange
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	String. Format: hh:mm. Value range: 00:00 to 23:59.
EndTime	End time of a periodic statement	N/A	String. Format: hh:mm. Value range: 00:00 to 24:00.
DayOfWeek	Day of the week	Data structure	Members include: <ul style="list-style-type: none"> • Sun. • Mon. • Tue. • Wed. • Thu. • Fri. • Sat.
Sun	Sunday	N/A	Boolean: <ul style="list-style-type: none"> • true—Specified. • false—Not specified (default).
Mon	Monday	N/A	Boolean: <ul style="list-style-type: none"> • true—Specified. • false—Not specified (default).

Column name	Column description	Column type	Data type and restrictions
Tue	Tuesday	N/A	Boolean: <ul style="list-style-type: none"> true—Specified. false—Not specified (default).
Wed	Wednesday	N/A	Boolean: <ul style="list-style-type: none"> true—Specified. false—Not specified (default).
Thu	Thursday	N/A	Boolean: <ul style="list-style-type: none"> true—Specified. false—Not specified (default).
Fri	Friday	N/A	Boolean: <ul style="list-style-type: none"> true—Specified. false—Not specified (default).
Sat	Saturday	N/A	Boolean: <ul style="list-style-type: none"> true—Specified. false—Not specified (default).

Contents

TimeRange1

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TimeRange

TimeRange

Message	Explanation
Invalid date or time settings. 配置中包含无效的日期和时间的设置。	The date or time entered is illegal. 输入的日期或时间是非法的。
The end time must be greater than the start time. 结束时间必须大于开始时间。	The end time entered is less than or equal to the start time. 输入的结束时间小于等于开始时间。
Maximum number of absolute statements already reached. 绝对时间段配置数达到上限。	The absolute number of configured times has reached the upper limit. 指配置的绝对时间数已经达到上限。
Maximum number of periodic statements already reached. 周期时间段配置数达到上限。	The periodic number of configured times has reached the upper limit. 配置的周期时间数已经达到上限。
Maximum number of time ranges already reached. 时间段配置数达到上限。	The configured number of time range names has reached the upper limit. 配置的时间段名称数已经达到上限。
At least one day of the week should be set for a periodic time range. 配置周期时间段时应至少指定一周中的一天。	The configured periodic time does not specify which day of the week. 配置周期时间时没有指定一周中哪天。
A time range with the same statements already exists. 相同的时间段配置已存在。	The same time range content has been configured. 已经配置了相同的时间段内容。

Contents

- Tracert 1
 - Tracert/IPv4Tracert 1
 - XML structure 1
 - Responded XML structure 1
 - Table description 1
 - Columns 2
 - Responded columns 2

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 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
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Test success. false—Test fail. 	The timeout to wait for total reply is about 25 seconds.

Contents

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 Tracert/IPv4Tracert 1

Tracert

Tracert/IPv4Tracert

Message	Explanation
Unknown host. 未知主机。	The specified host must exist.
The VPN instance doesn't exist. VPN不存在。	The specified VPN instance name must exist.
Invalid destination address. 非法的目的地址。	The specified destination address cannot be a multicast address or a broadcast address or all 0s.

Contents

- Tracert6 1
 - Tracert6/IPv6Tracert..... 1
 - XML structure 1
 - Responded XML structure..... 1
 - Table description..... 1
 - Columns 2
 - Responded columns 2

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Test success. false—Test fail. 	The timeout to wait for total reply is about 25 seconds.

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Tracert6

Tracert6/IPv6Tracert

Message	Explanation
Unknown host. 未知主机。	The specified host must exist.
The VPN instance doesn't exist. VPN不存在。	The specified VPN instance name must exist.
The destination address can't be an IPv6 multicast address. 不支持IPv6组播地址。	The specified destination address cannot be an ipv6 multicast address.
The destination address can't be an IPv6 link local address. 不支持IPv6链路本地地址。	The specified destination address cannot be an ipv6 link local address.
The destination IPv6 address can't be all 0s. IPv6目的地址不能为全零。	The specified destination address cannot be all 0s.

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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>
      <TypeLldp>
        <IfIndex></IfIndex>
      </TypeLldp>
    </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: <ul style="list-style-type: none"> IfIndex. IfStateType. 	All the members must be specified.
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.
IfStateType	Type of the interface state.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> EchoIfIndex. Remotelp. Locallp. 	All the members must be specified.
EchoIfIndex	Specifies the outgoing interface of the BFD echo packets.	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.
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 address of the BFD echo packets.	N/A	IPv4: String, dotted decimal notation.	N/A
TypeCfd	Associates the track entry with CFD.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> ListType. 	The ListType member must be specified.
ListType	Type of the tracked list.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Boolean AND list. 2—Boolean OR list. 3—Percentage threshold list. 	N/A

			<ul style="list-style-type: none"> 4—Weight threshold list. 	
TypeLldp	Associates the track entry with an LLDP neighbour.	Data structure	Members include: <ul style="list-style-type: none"> IfIndex. 	The IfIndex member must be specified.
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.

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 to negate the state of the object.	N/A	Boolean: <ul style="list-style-type: none">true—Negates the state of the object.false—Does not negate the state of the object (default).	This column can be 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: 1 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 99. 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: 1 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 254. Default: 0.	This column can be specified only when the track entry is associated with a weight threshold list.

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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>
      <TypeLldp>
        <IfIndex></IfIndex>
      </TypeLldp>
    </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 do this, you must delete the track entry and then create it again.

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: <ul style="list-style-type: none"> IfIndex. IfStateType. 	All the members must be specified.
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.
IfStateType	Type of the interface state.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> EchoIfIndex. Remotelp. Locallp. 	All the members must be specified.
EchoIfIndex	Specifies the outgoing interface of the BFD echo packets.	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.

Column name	Column description	Column type	Data type and restrictions	Remarks
Remotelp	Specifies the destination IP address of the BFD echo packets.	N/A	IPv4: String, dotted decimal notation.	N/A
LocalIp	Specifies the source IP address of the BFD echo packets.	N/A	IPv4: String, dotted decimal notation.	N/A
TypeCfd	Associates the track entry with CFD.	Data structure	Members include: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> ListType. 	The ListType member must be specified.
ListType	Type of the tracked list.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Boolean AND list. 2—Boolean OR list. 3—Percentage threshold 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			list. • 4—Weight threshold list.	
TypeLldp	Associates the track entry with an LLDP neighbour.	Data structure	Members include: • IfIndex.	The IfIndex member must be specified.
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.

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.

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 to negate the state of the object.	N/A	Boolean: <ul style="list-style-type: none">true—Negates the state of the object.false—Does not negate the state of the object.	This column can be 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.	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.

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: <ul style="list-style-type: none"> 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.	N/A
NegativeDelay	Specifies the negative state notification delay in seconds.	N/A	Unsigned integer. Value range: 0 to 300.	N/A
NotifyDelay	Remaining time of notification delay in seconds.	N/A	Unsigned integer. Value range: 0 to 300.	N/A
PositiveThresholdPercent	Specifies the positive state threshold in percentage.	N/A	Unsigned integer. Value range: 1 to 100.	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 99.	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.	N/A
PositiveThresholdWeight	Specifies the positive state threshold in weight.	N/A	Unsigned integer. Value range: 1 to 255.	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 254.	This column can be specified only when the track entry is associated with a

Column name	Column description	Column type	Data type and restrictions	Remarks
				weight threshold list.
PositiveWeight	Weight of positive objects in the tracked list.	N/A	Unsigned integer. Value range: 0 to 4080.	N/A

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TRACK

TRACK/TrackEntries

Message	Explanation
Some required non-index columns are missing for the track entry of the specified type. Track类型中的非索引列不完整。	All the members of tracked object type must be specified
Only one tracked object type can be specified for a track entry. 只能为一个Track项指定一种类型。	Only one tracked object type can be specified for a track entry.
The tracked object type must be specified. 必须为一个Track项指定类型。	The tracked object type must be specified.
The interface doesn't exist or it doesn't support the configuration. 接口不存在或者接口不支持该配置。	The interface doesn't exist or it doesn't support the configuration.
The specified VRF doesn't exist. 指定的VRF不存在。	Please create vpn-instance first.
Invalid IP address. 无效的地址。	Only class A,class B,class C addresses are available.
The specified track entry has already existed." 指定的Track项已存在。	Configuration already exists, when set new configuration.
The specified track entry doesn't exist. 指定的Track项不存在。	The specified configuration doesn't exist, when getting or deleting it.
Failed to apply the configuration. 配置执行失败。	You cannot modify the settings of the track entry after creating it in this table. If you need do this, you must delete the track entry and then create it again.
Track is not configured. 未配置TRACK。	Track service has not been started.
Do not specify the non-index columns. 不能配置非索引列。	Do not specify the non-index columns when deleting it.

TRACK/ObjectList

Message	Explanation
Failed to apply the configuration. 配置执行失败。	Please create track entry first.

TRACK/TrackOper

Message	Explanation
A minimum of one non-index column is required. 至少需配置一条非索引列。	Please specify at least one of non-index column.
Failed to apply the configuration. 配置执行失败。	Please create track entry first.

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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: <ul style="list-style-type: none">true—Succeeded.false—Failed.
Information	Detailed diagnosis information	N/A	String. <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
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 - TroubleShoot/PktTraceState2
 - 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Diagnosis is not finished yet. false—Diagnosis is finished.

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 - 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	<ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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
			<p>IPv6.</p> <ul style="list-style-type: none"> • 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
			<p>protocol being IPv6.</p> <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> true—check GRE checksum. false—does not check GRE checksum(default) 	
VpcEnable	Whether to carry VPC information in GRE packets.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">true—dropfalse—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: <ul style="list-style-type: none">true—dropfalse—not drop(default)	
VxlanIpForward	Specifies the action of whether or not to use the L3 forwarding mode.	N/A	Boolean: <ul style="list-style-type: none">true—using L3 forwarding modefalse—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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Columns.....	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: <ul style="list-style-type: none"> 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
			<p>or IPv4 packets in IPv6.</p> <ul style="list-style-type: none"> • 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
			<p>the transport protocol being IPv6.</p> <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—check GRE checksum. false—does not check GRE checksum. 	
VpcEnable	Whether to carry VPC information in GRE packets.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—drop false—not drop 	
VxlanIpForwarding	Specifies the action of whether or not to use the L3 forwarding mode.	N/A	Boolean: <ul style="list-style-type: none"> 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	<p>Enumeration:</p> <ul style="list-style-type: none"> 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
			<p>GRE and the transport protocol being IPv4.</p> <ul style="list-style-type: none"> • 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
			<p>transport protocol being IPv4.</p> <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">0—Roll back to the original version1—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	UFLT
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: <ul style="list-style-type: none">0—Permit.1—Drop.2—Reset.3—Redirect.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
DefaultActLogging	Default action logging instance	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
CloudQuery	CloudQuering	N/A	Enumeration: <ul style="list-style-type: none"> 0—Enable. 1—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
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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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
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	UFLT
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	Unsigned short.	N/A
CategoryType	Category type	N/A	Enumeration: <ul style="list-style-type: none">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	Unsigned short.	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
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: <ul style="list-style-type: none"> 1—Text. 2—Regex. 	N/A
HostName	Host name	N/A	If host type is text: <ul style="list-style-type: none"> String, case-insensitive. Length: 3 to 224 characters. If host type is regex: <ul style="list-style-type: none"> OctectString. Length: 3 to 224 characters. 	N/A
URIType	URI type	N/A	Enumeration: <ul style="list-style-type: none"> 1—Text. 2—Regex. 	N/A
URIStrng	URI string	N/A	If URI type is text: <ul style="list-style-type: none"> String, case-insensitive. Length: 3 to 255 characters. If URI type is regex: <ul style="list-style-type: none"> 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>
      <URIStrng></URIStrng>
    </PolicyRule>
  </BlackWhiteList>
</UFLT>

```



```

    </PolicyRule>
  </BlackWhiteList>
</UFLT>

```

Table description

Item	Description
Feature name	UFLT
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: <ul style="list-style-type: none"> 1—Whitelist. 2—Blacklist. 	N/A
RuleID	Rule ID	Index	Unsigned integer. Value range: 1 to 65535.	N/A
HostType	Host type	N/A	Enumeration: <ul style="list-style-type: none"> 1—Text. 2—Regex. 	N/A
HostName	Host name	N/A	If host type is text: <ul style="list-style-type: none"> String, case-insensitive. Length: 3 to 224 characters. If URI type is regex: <ul style="list-style-type: none"> OctectString. Length: 3 to 224 characters. 	N/A
URIType	URI type	N/A	Enumeration: <ul style="list-style-type: none"> 1—Text. 2—Regex. 	N/A
URI String	URI string	N/A	If URI type is text: <ul style="list-style-type: none"> String, case-insensitive. Length: 3 to 245 characters. If URI type is regex: <ul style="list-style-type: none"> OctectString. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> Length: 3 to 245 characters. 	

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	UFLT
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—Week. 1—Periodic. 	Default: 1.

Column name	Column description	Column type	Data type and restrictions	Remarks
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	UFLT
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	UFLT
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: <ul style="list-style-type: none"> 1—Logging. 2—Redirect. 3—Block. 	N/A
InstanceName	Instance name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

UFLT/CloudQueryConfig

This table contains cloud query configuration.

XML structure

```

<UFLT>
  <CloudQueryConfig>
    <HostName></HostName>
    <CacheSize></CacheSize>
    <CacheTime></CacheTime>
  </CloudQueryConfig>
</UFLT>

```


Table description

Item	Description
Feature name	UFLT
Table name	CloudQueryConfig
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostName	Name of the host	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
CacheSize	Size of the cache	N/A	Unsigned integer. Value range: 8192 to 65535.	N/A
CacheTime	Lifetime of the cached entries	N/A	Unsigned integer. Value range: 10 to 720.	N/A

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Columns	15

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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 0—Disable. 1—Enable. 	N/A
DefaultActLogging	Default action logging instance	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A
CloudQuery	CloudQuering	N/A	Enumeration: <ul style="list-style-type: none"> 0—Enable. 1—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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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	Unsigned short.	N/A
CategoryType	Category type	N/A	Enumeration: <ul style="list-style-type: none">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	Unsigned short.	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: <ul style="list-style-type: none"> 1—Text. 2—Regex. 	N/A
HostName	Host name	N/A	If host type is text: <ul style="list-style-type: none"> String, case-insensitive. Length: 3 to 224 characters. If host type is regex: <ul style="list-style-type: none"> OctectString. Length: 3 to 224 characters. 	N/A
URIType	URI type	N/A	Enumeration: <ul style="list-style-type: none"> 1—Text. 2—Regex. 	N/A
URIString	URI string	N/A	If URI type is text: <ul style="list-style-type: none"> String, case-insensitive. Length: 3 to 255 characters. If URI type is regex: <ul style="list-style-type: none"> OctectString. Length: 3 to 253 characters. 	N/A

UFLT/Statistic

This table contains the information about URL filter statistic.

XML structure

```

<UFLT>
  <Statistic>
    <TotalRequests></TotalRequests>
    <PermittedRequests></PermittedRequests>
    <DeniedRequests></DeniedRequests>
    <MatchedBlacklist></MatchedBlacklist>
    <MatchedWhitelist></MatchedWhitelist>
    <MatchedUDEFCategory></MatchedUDEFCategory>
    <MatchedPDEFCategory></MatchedPDEFCategory>
    <MatchedCacheAction></MatchedCacheAction>
    <MatchedDefaultAction></MatchedDefaultAction>
  
```



```

        <PDEFURLNumbers></PDEFURLNumbers>
    </Statistic>
</UFLT>

```

Table description

Item	Description
Feature name	UFLT
Table name	Statistic
Table type	Single-instance table
Row name	None
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
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>
      <URIString></URIString>
    </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: <ul style="list-style-type: none">1—Whitelist.2—Blacklist.	N/A
RuleID	Rule ID	Index	Unsigned integer: Value range: 1 to 65535.	N/A
HostType	Host type	N/A	Enumeration: <ul style="list-style-type: none">1—Text.2—Regex.	N/A
HostName	Host name	N/A	If host type is text: <ul style="list-style-type: none">String, case-insensitive.Length: 3 to 224 characters. If URI type is regex: <ul style="list-style-type: none">OctectString.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> Length: 3 to 224 characters. 	
URIType	URI type	N/A	Enumeration: <ul style="list-style-type: none"> 1—Text. 2—Regex. 	N/A
URI String	URI string	N/A	If URI type is text: <ul style="list-style-type: none"> String, case-insensitive. Length: 3 to 245 characters. If URI type is regex: <ul style="list-style-type: none"> 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	UFLT
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	UFLT
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: <ul style="list-style-type: none">truefalse	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: <ul style="list-style-type: none">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>
    <ErrorCode></ErrorCode>
  </UpdatePercentage>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
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 to 100.	When the value range is 0 to 100, it means in upgrading. Otherwise, means error.
ErrorCode	Error of update	N/A	Enumeration: <ul style="list-style-type: none">0—Success.1—License check error.2—SigFile check error.3—Server connect error.	N/A

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: <ul style="list-style-type: none"> 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>

```



```

    </ActionInstance>
  </UFLT>

```

Table description

Item	Description
Feature name	UFLT
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: <ul style="list-style-type: none"> 1—Logging. 2—Redirect. 3—Block. 	N/A
InstanceName	Instance name	N/A	String, case-insensitive. Length: 1 to 63 characters.	N/A

UFLT/CloudQueryConfig

This table contains cloud query configure information.

XML structure

```

<UFLT>
  <CloudQueryConfig>
    <HostName></HostName>
    <CacheSize></CacheSize>
    <CacheTime></CacheTime>
  </CloudQueryConfig>
</UFLT>

```

Table description

Item	Description
Feature name	UFLT
Table name	CloudQueryConfig
Table type	Single-instance table
Row name	None

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostName	Name of the host	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A
CacheSize	Size of the cache	N/A	Unsigned integer. Value range: 8192 to 65535.	N/A
CacheTime	Lifetime of the cached entries	N/A	Unsigned integer. Value range: 10 to 720.	N/A

UFLT/CloudQueryState

This table contains cloud query status information.

XML structure

```
<UFLT>
  <CloudQueryState>
    <HostName></HostName>
    <HostState></HostState>
    <HostStateErrCode></HostStateErrCode>
    <VersionState></VersionState>
  </CloudQueryState>
</UFLT>
```

Table description

Item	Description
Feature name	UFLT
Table name	CloudQueryState
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
HostName	Name of the host	N/A	String, case-insensitive. Length: 1 to 255 characters.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
HostState	Status of the host	N/A	Enumeration: <ul style="list-style-type: none"> 0—Available. 1—Unavailable. 	N/A
HostStateErrCode	Error code of cloud query	N/A	Unsigned integer. Value range: 0 to 3.	N/A
VersionState	Comparison between the local signature version and cloud query result	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A

UFLT/ParentCategories

This table contains information about the URL filter ParentCategory.

XML structure

```

<UFLT>
  <ParentCategories>
    <ParentCategory>
      <ParentCategoryName></ParentCategoryName>
      <PreCategoryIDs>
        <PreCategoryID></PreCategoryID>
      </PreCategoryIDs>
    </ParentCategory>
  </ParentCategories>
</UFLT>

```

Table description

Item	Description
Feature name	UFLT
Table name	ParentCategories
Table type	Multi-instance table
Row name	ParentCategory
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ParentCategoryName	Name of the predefined	Index	String, case-insensitive.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	parent category		Length: 1 to 63 characters.	
PreCategoryIDs	List of predefined category ID	Data structure	Members include: <ul style="list-style-type: none"> PreCategoryID 	N/A
PreCategoryID	Predefined category ID	N/A	Unsigned short. Value range: 0 to 255.	N/A

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URPF4

URPF4/ClearInterfaceStatistics

This table is used to clear uRPF statistics on interfaces.

XML structure

```
<URPF4>
  <ClearInterfaceStatistics>
    <Statistics>
      <Chassis></Chassis>
      <Slot></Slot>
      <CPUID></CPUID>
      <Clear></Clear>
    </Statistics>
  </ClearInterfaceStatistics>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	ClearInterfaceStatistics
Table type	Multi-instance table
Row name	Statistics
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.	N/A
Clear	Clear interface statistics	N/A	Unsigned integer.	This column must be empty.

URPF4/ClearZoneStatistics

This table is used to clear uRPF statistics on security zones.

XML structure

```
<URPF4>
  <ClearZoneStatistics>
    <Statistics>
      <ZoneID></ZoneID>
      <Clear></Clear>
    </Statistics>
  </ClearZoneStatistics>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	ClearZoneStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A
Clear	Clear security zone statistics	N/A	Unsigned integer.	This column must be empty.

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URPF4

URPF4/URPFIPv4

This table is used to configure IPv4 global uRPF policies.

XML structure

```
<URPF4>
  <URPFIPv4>
    <URPFType></URPFType>
    <AllowDefaultRoute></AllowDefaultRoute>
    <ACLNumber></ACLNumber>
    <LinkCheck></LinkCheck>
  </URPFIPv4>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	URPFIPv4
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
URPFType	Check type of uRPF4	N/A	Enumeration: <ul style="list-style-type: none">• 0—strict.• 1—loose.• 2—none.	N/A
AllowDefaultRoute	Allow default route switch	N/A	Boolean: <ul style="list-style-type: none">• true• false	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
LinkCheck	Link check switch	N/A	Boolean: <ul style="list-style-type: none">• true	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> false 	

URPF4/URPFInterfaces

This table is used to configure IPv4 uRPF policies on interfaces.

XML structure

```

<URPF4>
  <URPFInterfaces>
    <Apply>
      <IfIndex></IfIndex>
      <URPFType></URPFType>
      <AllowDefaultRoute></AllowDefaultRoute>
      <ACLNumber></ACLNumber>
      <LinkCheck></LinkCheck>
    </Apply>
  </URPFInterfaces>
</URPF4>

```

Table description

Item	Description
Feature name	URPF4
Table name	URPFInterfaces
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
URPFType	Check type of uRPF4	N/A	Enumeration: <ul style="list-style-type: none"> 0—strict. 1—loose. 2—none. 	N/A
AllowDefaultRoute	Allow default route switch	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
LinkCheck	Link check switch	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	N/A

URPF4/URPFZones

This table is used to configure IPv4 uRPF policies on security zones.

XML structure

```

<URPF4>
  <URPFZones>
    <Apply>
      <ZoneID></ZoneID>
      <URPFType></URPFType>
      <AllowDefaultRoute></AllowDefaultRoute>
      <ACLNumber></ACLNumber>
      <LinkCheck></LinkCheck>
    </Apply>
  </URPFZones>
</URPF4>

```

Table description

Item	Description
Feature name	URPF4
Table name	URPFZones
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
URPFType	Check type of uRPF4	N/A	Enumeration: <ul style="list-style-type: none"> • 0—strict. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> • 1—loose. • 2—none. 	
AllowDefaultRoute	Allow default route switch	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
LinkCheck	Link check switch	N/A	Boolean: <ul style="list-style-type: none"> • true • false 	N/A

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URPF4

URPF4/URPFIPv4

This table is used to configure IPv4 global uRPF policies.

XML structure

```
<URPF4>
  <URPFIPv4>
    <URPFType></URPFType>
    <AllowDefaultRoute></AllowDefaultRoute>
    <ACLNumber></ACLNumber>
    <LinkCheck></LinkCheck>
  </URPFIPv4>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	URPFIPv4
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
URPFType	Check type of uRPF4	N/A	Enumeration: <ul style="list-style-type: none">• 0—strict.• 1—loose.• 2—none.	N/A
AllowDefaultRoute	Allow default route switch	N/A	Boolean: <ul style="list-style-type: none">• true• false	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
LinkCheck	Link check switch	N/A	Boolean: <ul style="list-style-type: none">• true• false	N/A

URPF4/URPFInterfaces

This table is used to configure IPv4 uRPF policies on interfaces.

XML structure

```
<URPF4>
  <URPFInterfaces>
    <Apply>
      <IfIndex></IfIndex>
      <URPFType></URPFType>
      <AllowDefaultRoute></AllowDefaultRoute>
      <ACLNumber></ACLNumber>
      <LinkCheck></LinkCheck>
    </Apply>
  </URPFInterfaces>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	URPFInterfaces
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
URPFType	Check type of uRPF4	N/A	Enumeration: <ul style="list-style-type: none">• 0—strict.• 1—loose.• 2—none.	N/A
AllowDefaultRoute	Allow default route switch	N/A	Boolean: <ul style="list-style-type: none">• true• false	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
LinkCheck	Link check switch	N/A	Boolean: <ul style="list-style-type: none">• true• false	N/A

URPF4/URPFZones

This table is used to configure IPv4 uRPF policies on security zones.

XML structure

```
<URPF4>
  <URPFZones>
    <Apply>
      <ZoneID></ZoneID>
      <URPFType></URPFType>
      <AllowDefaultRoute></AllowDefaultRoute>
      <ACLNumber></ACLNumber>
      <LinkCheck></LinkCheck>
    </Apply>
  </URPFZones>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	URPFZones
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
URPFType	Check type of uRPF4	N/A	Enumeration: <ul style="list-style-type: none">• 0—strict.• 1—loose.• 2—none.	N/A
AllowDefaultRoute	Allow default route switch	N/A	Boolean: <ul style="list-style-type: none">• true• false	N/A
ACLNumber	ACL number	N/A	Unsigned integer. Value range: 2000 to 3999.	N/A
LinkCheck	Link check switch	N/A	Boolean: <ul style="list-style-type: none">• true• false	N/A

URPF4/URPF4Specification

This table contains information about support for the attributes on the device.

XML structure

```
<URPF4>
  <URPF4Specification>
    <SupportGlobal></SupportGlobal>
    <SupportInterface></SupportInterface>
    <SupportZone></SupportZone>
    <SupportLoose></SupportLoose>
    <SupportStrict></SupportStrict>
    <SupportAllowDefaultRoute></SupportAllowDefaultRoute>
    <SupportACL></SupportACL>
    <SupportLinkCheck></SupportLinkCheck>
  </URPF4Specification>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	URPF4Specification
Table type	Single-instance table
Row name	N/A
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportGlobal	Support for global configuration	N/A	Boolean: <ul style="list-style-type: none">• true• false	N/A
SupportInterface	Support for configuration on interfaces	N/A	Boolean: <ul style="list-style-type: none">• true• false	N/A
SupportZone	Support for configuration on the security zone	N/A	Boolean: <ul style="list-style-type: none">• true• false	N/A
SupportLoose	Support for loose check	N/A	Boolean: <ul style="list-style-type: none">• true• false	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SupportStrict	Support for strict check	N/A	Boolean: • true • false	N/A
SupportAllowDefaultRoute	Support for default route check	N/A	Boolean: • true • false	N/A
SupportACL	Support for ACL check	N/A	Boolean: • true • false	N/A
SupportLinkCheck	Support for link layer check	N/A	Boolean: • true • false	N/A

URPF4/InterfaceStatistics

This table contains information about the number of dropped packets and packets that are not dropped due to ACL drop suppression on an interface.

XML structure

```
<URPF4>
  <InterfaceStatistics>
    <Statistics>
      <IfIndex></IfIndex>
      <DropCnt></DropCnt>
      <SuppressCnt></SuppressCnt>
    </Statistics>
  </InterfaceStatistics>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	InterfaceStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	Interface index	Index	Unsigned integer.	N/A
DropCnt	Number of dropped packets	N/A	Unsigned integer.	N/A
SuppressCnt	Number of packets that are not dropped due to ACL drop suppression	N/A	Unsigned integer.	N/A

URPF4/ZoneStatistics

This table contains information about the number of dropped packets and packets that are not dropped due to ACL drop suppression on a security zone.

XML structure

```
<URPF4>
  <ZoneStatistics>
    <Statistics>
      <ZoneID></ZoneID>
      <DropCnt></DropCnt>
      <SuppressCnt></SuppressCnt>
    </Statistics>
  </ZoneStatistics>
</URPF4>
```

Table description

Item	Description
Feature name	URPF4
Table name	ZoneStatistics
Table type	Multi-instance table
Row name	Statistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ZoneID	Security zone ID	Index	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DropCnt	Number of dropped packets	N/A	Unsigned integer.	N/A
SuppressCnt	Number of packets that are not dropped due to ACL drop suppression	N/A	Unsigned integer.	N/A

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 - URPF4/URPFInterfaces1
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URPF4

URPF4/URPFIPv4

Message	Explanation
Failed to enable uRPF on chassis %u slot %u.	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled.
Failed to enable uRPF on chassis %u slot %u cpu %u.	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled.
Failed to enable uRPF on slot %u.	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled.
Failed to enable uRPF on slot %u cpu %u.	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled.
Failed to enable uRPF.	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled.
Link layer check can't be configured for loose uRPF.	During executing create、merge or replace operation,link layer check can't be configured for loose uRPF.
Configuration items don't meet the requirements.	During executing create、merge or replace operation, configuration items don't meet the requirements.
The operation is not supported on this the device.	During executing create、merge or replace operation, the operation is must supported on this the device

URPF4/URPFInterfaces

Message	Explanation
Failed to enable uRPF on chassis %u slot %u.	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled.
Failed to enable uRPF on chassis %u slot %u cpu %u.	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled.
Failed to enable uRPF on slot %u.	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled.
Failed to enable uRPF on slot %u cpu %u.	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled.
Failed to enable uRPF.	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled.
Link layer check can't be configured for loose uRPF.	During executing create、merge or replace operation,link layer check can't be configured for loose uRPF.
Configuration items don't meet the requirements.	During executing create、merge or replace operation, configuration items don't meet the requirements.
The operation is not supported on this the device.	During executing create、merge or replace operation, the operation is must supported on this the device

URPF4/URPFZones

Message	Explanation
Failed to enable uRPF on chassis %u slot %u.	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled.
Failed to enable uRPF on chassis %u slot %u cpu %u.	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled.
Failed to enable uRPF on slot %u.	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled.
Failed to enable uRPF on slot %u cpu %u.	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled.
Failed to enable uRPF.	During executing create、merge or replace operation,the operation failed when the uRPF feature was enabled.
Link layer check can't be configured for loose uRPF.	During executing create、merge or replace operation,link layer check can't be configured for loose uRPF.
Configuration items don't meet the requirements.	During executing create、merge or replace operation, configuration items don't meet the requirements.
The operation is not supported on this the device.	During executing create、merge or replace operation, the operation is must supported on this the device

URPF4/ZoneStatistics

Message	Explanation
The operation is not supported on Local zone.	During executing get operation, The operation is must supported on Local zone.

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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false 	Default: false
Override	Whether to override existing guest accounts with the same name	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">StartValidityDateTimeEndValidityDateTime	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: <ul style="list-style-type: none"> StartValidityDateTime Pad EndValidtyDateTime 	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/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: <ul style="list-style-type: none">truefalse	Default: false
Override	Whether to override existing guest accounts with the same name	N/A	Boolean: <ul style="list-style-type: none">truefalse	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. <ul style="list-style-type: none"><i>localusername</i>—Local user name, case-sensitive string of 1 to 55 characters.@—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

UserAccounts/ChangeMyPassword

This table changes the password of the current device management user and verifies the old password during the password change process.

XML structure

```
<UserAccounts>
  <ChangeMyPassword>
    <OldPassword></OldPassword>
    <Password></Password>
  </ChangeMyPassword>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	ChangeMyPassword
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
OldPassword	Old password	N/A	String, case-sensitive. Length: 1 to 63 characters.	If the user has an old password, the old password must be provided. If the user does not have an old password, do not include the OldPassword column or do not set a value for the OldPassword column.
Password	New password	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A

UserAccounts/AutoPassword

This table creates a random password for a network user and sends a mail to the user's mailbox.

XML structure

```
<UserAccounts>
  <AutoPassword>
    <UserName></UserName>
    <EmailAddress></EmailAddress>
  </AutoPassword>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	AutoPassword
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	N/A	String. Length: 1 to 311 characters. The username is in the format of <i>localusername@domain</i> or <i>localusername</i> . <ul style="list-style-type: none"> <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: \ / : * ? < > @
EmailAddress	Email address of the user	N/A	String. Length: 1 to 255 characters.	The email address must include one at sign (@).

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UserAccounts

UserAccounts/UserGroups

User group information table.

XML structure

```
<UserAccounts>
  <UserGroups>
    <Group>
      <Name></Name>
      <AuthorizationInfo>
        <AclNumber></AclNumber>
        <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>
        <SSLVPNPolicy></SSLVPNPolicy>
        <SessTimeout></SessTimeout>
      </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

Item	Description
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: <ul style="list-style-type: none"> • AclNumber • CallbackNumber • FTPHomeDir • IdleTimeout • PrimaryDNSServer • SecondaryDNSServer • URL • UserProfile • VLANID • VRF • 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
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	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
SecondaryDNSIpv6Server	Secondary DNS Ipv6 Server.	N/A	IPv6: Hexadecimal string, colon-separated.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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
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 63 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
SessTimeout	Session timeout	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.	N/A
AuthorizationIpv6PrefixInfo	IPv6 address prefix assigned to the local user	Data structure	Members include: <ul style="list-style-type: none"> 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>
        <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: \ / : * ? < > @

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> true false 	The default is false.
HTTP	Whether the HTTP service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default is false.
HTTPS	Whether the HTTPS service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default is false.
PAD	Whether the PAD service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default is false.
SSH	Whether the SSH service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default is false.
TELNET	Whether the telnet service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default is false.
Terminal	Whether the Terminal service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> 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>
          <AclNumber></AclNumber>
          <CallbackNumber></CallbackNumber>
          <IdleTimeout></IdleTimeout>
          <PrimaryDNSServer></PrimaryDNSServer>
          <PrimaryDNSIpv6Server></PrimaryDNSIpv6Server>
          <SecondaryDNSServer></SecondaryDNSServer>
          <SecondaryDNSIpv6Server></SecondaryDNSIpv6Server>
          <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>
      </Account>
    </Accounts>
  </Network>
</UserAccounts>
```



```

        <SessTimeout></SessTimeout>
        <Description></Description>
    </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: <ul style="list-style-type: none"> true false 	The default is false.
IPoE	Whether the IPoE service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default is false.

Column name	Column description	Column type	Data type and restrictions	Remarks
LanAccess	Whether the LAN access service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default is false.
Portal	Whether the portal service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default is false.
PPP	Whether the PPP service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> 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
AuthorizationInfo	Authorization information	Data structure	Members include: <ul style="list-style-type: none"> AcINumber CallbackNumber IdleTimeout PrimaryDNSServer SecondaryDNSServer URL UserProfile VLANID VRF Ipv4Address Ipv6Address IpPool Ipv6Pool SSLVPNPolicy 	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
IdleTimeout	Idle time	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
SecondaryDNSIpv6Server	Secondary DNS Ipv6 Server.	N/A	IPv6: Hexadecimal string, colon-separated.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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 63 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> CallNumber Interface Ipv4Address MacAddress VLANID 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
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
ValidityDateTim e	Account validity time period	Data structure	Members include: <ul style="list-style-type: none"> 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
Description	Description of the local user	N/A	String. Length: 1 to 127 characters.	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>
      </Account>
    </Accounts>
  </Guest>
</UserAccounts>

```



```

    <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: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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 (@).
SponsorDepartment	Sponsor department	N/A	String. Length: 1 to 127 characters.	N/A
ValidityDateTime	Account validity time period	Data structure	Members include: <ul style="list-style-type: none"> 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>
  </GuestConfigure>
</UserAccounts>

```



```

    <WaitApprovalTime></WaitApprovalTime>
  </GuestConfigure>
</UserAccounts>

```

Table description

Item	Description
Feature name	UserAccounts
Table name	GuestConfigure
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
AutoDelete	Whether to enable automatic deletion	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default is false.
EmailFormat	Email address format	Data structure	Members include: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
GuestManager Email	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
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: <ul style="list-style-type: none">• 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: 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: \ / : * ? < > @
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: <ul style="list-style-type: none">truefalse	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. <ul style="list-style-type: none"><i>localusername</i>—Local user name, case-sensitive string of 1 to 55 characters.@—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

UserAccounts/NetworkMailConfigure

Global mail configuration table of local network access users.

XML structure

```
<UserAccounts>
  <NetworkMailConfigure>
    <EmailFormat>
      <Subject></Subject>
      <Body></Body>
    </EmailFormat>
    <EmailSender></EmailSender>
    <SmtpServer></SmtpServer>
    <SmtpAuthentication>
      <UserName></UserName>
      <Password></Password>
    </SmtpAuthentication>
  </NetworkMailConfigure>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	NetworkMailConfigure
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
EmailFormat	Email address format	Data structure	Members include: <ul style="list-style-type: none">Subject.Body.	N/A
Subject	Email subject to send	N/A	String. Length: 1 to 127 characters.	N/A
Body	Email body to send	N/A	String. Length: 1 to 255 characters.	N/A
EmailSender	Email address of the sender	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

Column name	Column description	Column type	Data type and restrictions	Remarks
SmtpAuthentication	SMTP server authentication configuration	Data structure	Members include: <ul style="list-style-type: none"> UserName. Password. 	N/A
UserName	User name	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A
Password	User password	N/A	String.case-sensitive. Length: 1 to 63 characters.	The set operation sends plaintext strings.

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UserAccounts

UserAccounts/UserGroups

User group information table.

XML structure

```
<UserAccounts>
  <UserGroups>
    <Group>
      <Name></Name>
      <AuthorizationInfo>
        <AclNumber></AclNumber>
        <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>
        <SSLVPNPolicy></SSLVPNPolicy>
        <SessTimeout></SessTimeout>
      </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

Item	Description
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: <ul style="list-style-type: none"> • 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	IPv4: String, dotted decimal notation.	N/A
PrimaryDNSIpv6Server	Primary DNS Ipv6 server.	N/A	IPv6: Hexadecimal string, colon-separated.	N/A
SecondaryDNS Server	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

Column name	Column description	Column type	Data type and restrictions	Remarks
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
IpPool	Name of the IP address pool available to the local user	N/A	String. Length: 1 to 63 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
SessTimeout	Session timeout	N/A	Unsigned integer. Value range: 1 to 1440, in minutes.	N/A
AuthorizationIpv6PrefixInfo	IPv6 address prefix assigned to the local user	Data structure	Members include: <ul style="list-style-type: none"> 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>
      </Account>
    </Accounts>
  </Management>
</UserAccounts>

```



```

    <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: <ul style="list-style-type: none"> true false 	The default is false.
HTTP	Whether the HTTP service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true false 	The default is false.
PAD	Whether the PAD service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default is false.
SSH	Whether the SSH service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default is false.
TELNET	Whether the telnet service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default is false.
Terminal	Whether the Terminal service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> 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
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>
        <PrimaryDNSIPv6Server></PrimaryDNSIPv6Server>
        <SecondaryDNSServer></SecondaryDNSServer>
        <SecondaryDNSIPv6Server></SecondaryDNSIPv6Server>
        <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>
    <SessTimeout></SessTimeout>
    <ValidityDateTime>
        <StartValidityDateTime></StartValidityDateTime>
        <EndValidityDateTime></EndValidityDateTime>
    </ValidityDateTime>
    <Description></Description>
</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
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: <ul style="list-style-type: none"> true false 	The default is false.
IPoE	Whether the IPoE service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default is false.
LanAccess	Whether the LAN access service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default is false.
Portal	Whether the portal service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> true false 	The default is false.
PPP	Whether the PPP service is available to the local user	N/A	Boolean: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthorizationInfo	Authorization information of the local user	Data structure	Members include: <ul style="list-style-type: none"> • 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 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
SecondaryDNSIpv6Server	Secondary DNS Ipv6 Server.	N/A	IPv6: Hexadecimal string, colon-separated.	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 63 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: <ul style="list-style-type: none"> 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
BindingInfo	Binding attributes of the local user	Data structure	Members include: <ul style="list-style-type: none"> 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
ValidityDateTime	Account validity time period	Data structure	Members include: <ul style="list-style-type: none"> StartValidityDateTime EndValidityDateTime 	N/A
StartValidityDateTime	Time from which the account becomes valid	N/A	Date/Time. Format: YYYY-MM-DDTHH:MM:SS.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
EndValidityDate Time	Time at which the account expires	N/A	DateTime. Format: YYYY-MM-DDTHH:MM:SS.	N/A
Description	Description of the local user	N/A	String. Length: 1 to 127 characters.	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	<ul style="list-style-type: none"> The configuration takes effect on the following items: <ul style="list-style-type: none"> 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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: <ul style="list-style-type: none"> 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 .
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

Column name	Column description	Column type	Data type and restrictions	Remarks
ValidityDateTime	Account validity time period	Data structure	Members include: <ul style="list-style-type: none"> 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>
    </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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AutoDelete	Whether to enable automatic deletion	Column	Boolean: <ul style="list-style-type: none"> true false 	The default is false.
EmailFormat	Email address format	Data structure	Members include: <ul style="list-style-type: none"> 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
GuestSponsorBody	Email body to send to the guest sponsor	N/A	String. Length: 1 to 255 characters.	N/A
GuestManager Email	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 family	Index	Enumeration: <ul style="list-style-type: none">• 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
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
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>
  </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>

```



```

    </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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">truefalse	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. <ul style="list-style-type: none"><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: \ : * ? < > @

UserAccounts/NetworkMailConfigure

Global mail configuration table of local network access users.

XML structure

```
<UserAccounts>
  <NetworkMailConfigure>
    <EmailFormat>
      <Subject></Subject>
      <Body></Body>
    </EmailFormat>
    <EmailSender></EmailSender>
    <SmtpServer></SmtpServer>
    <SmtpAuthentication>
      <UserName></UserName>
    </SmtpAuthentication>
  </NetworkMailConfigure>
</UserAccounts>
```

Table description

Item	Description
Feature name	UserAccounts
Table name	NetworkMailConfigure
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
EmailFormat	Email address format	Data structure	Members include: <ul style="list-style-type: none"> Subject. Body. 	N/A
Subject	Email subject to send	N/A	String. Length: 1 to 127 characters.	N/A
Body	Email body to send	N/A	String. Length: 1 to 255 characters.	N/A
EmailSender	Email address of the sender	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
SmtpAuthentication	SMTP server authentication configuration	Data structure	Members include: <ul style="list-style-type: none"> UserName. Password. 	N/A
UserName	User name	N/A	String, case-sensitive. Length: 1 to 63 characters.	N/A

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UserAccounts

UserAccounts/Guest/Accounts

Message	Explanation
Username can't contain characters \ / : * ? < > @ and can't be a, al, or all.	Username can't contain characters \ / : * ? < > @ and can't be a, al, or all.
Insufficient right to perform the operation.	Insufficient right to perform the operation.
The user doesn't exist.	The user doesn't exist.
Maximum number of users already reached.	Maximum number of users already reached.
Insufficient right to perform the operation.	Insufficient right to perform the operation.
This user already exists.	This user already exists.
Invalid Email address.	Invalid Email address.
The expiration date and time should be later than the current date and time.	The expiration date and time should be later than the current date and time.
The expiration date time should be later than the start date time.	The expiration date time should be later than the start date time.
Username conflicted. Please change the name configuration.	Username conflicted. Please change the name configuration.
Validity date and time configuration is not complete.	Validity date and time configuration is not complete.
Operation not supported.	Operation not supported.
A local user with the same name already exists.	A local user with the same name already exists.
The new password is too short. It must contain at least %u characters.	The new password is too short. It must contain at least %u characters.
Invalid password composition. The new password must contain at least %u types and at least %u characters for each type.	Invalid password composition. The new password must contain at least %u types and at least %u characters for each type.
The new password cannot contain 3 or more repeated characters.	The new password cannot contain 3 or more repeated characters.
The new password cannot contain the username or reversed username.	The new password cannot contain the username or reversed username.
The new password must contain at least 4 different characters different from any previous password.	The new password must contain at least 4 different characters different from any previous password.
Cannot change password until the update-wait time expires.	Cannot change password until the update-wait time expires.
The new password must contain at least 4 different characters.	The new password must contain at least 4 different characters.
Operation failed. The system resource is not enough.	Operation failed. The system resource is not enough.
The new password is too long. It can't contain more than %u characters.	The new password is too long. It can't contain more than %u characters.
The new password must be different from the old	The new password must be different from the old password or any

password or any passwords stored in the history records.	passwords stored in the history records.
The new password must be different from the old password by a minimum of four different characters.	The new password must be different from the old password by a minimum of four different characters.

UserAccounts/Management/Accounts

Message	Explanation
Username can't contain characters \ / : * ? < > @ and can't be a, al, or all.	Username can't contain characters \ / : * ? < > @ and can't be a, al, or all.
Can't remove the security-audit user role from the user: This user is the only user with the security-audit user role in the system.	Can't remove the security-audit user role from the user: This user is the only user with the security-audit user role in the system.
Can't delete all users with the security-audit user role in the system.	Can't delete all users with the security-audit user role in the system.
Can't delete the user: This user is the only user with the security-audit user role.	Can't delete the user: This user is the only user with the security-audit user role.
The user group doesn't exist.	The user group doesn't exist.
Insufficient right to perform the operation.	Insufficient right to perform the operation.
The user doesn't exist.	The user doesn't exist.
Invalid path or nonexistent directory.	Invalid path or nonexistent directory.
Maximum number of users already reached.	Maximum number of users already reached.
Insufficient right to perform the operation.	Insufficient right to perform the operation.
The user role isn't assigned to the user.	The user role isn't assigned to the user.
This user already exists.	This user already exists.
The new password is too short. It must contain at least %u characters.	The new password is too short. It must contain at least %u characters.
Invalid password composition. The new password must contain at least %u types and at least %u characters for each type.	Invalid password composition. The new password must contain at least %u types and at least %u characters for each type.
The new password cannot contain 3 or more repeated characters.	The new password cannot contain 3 or more repeated characters.
The new password cannot contain the username or reversed username.	The new password cannot contain the username or reversed username.
The new password must contain at least 4 different characters different from any previous password.	The new password must contain at least 4 different characters different from any previous password.
Cannot change password until the update-wait time expires.	Cannot change password until the update-wait time expires.
The new password must contain at least 4 different characters.	The new password must contain at least 4 different characters.
Operation failed. The system resource is not enough.	Operation failed. The system resource is not enough.
The new password is too long. It can't contain more than %u characters.	The new password is too long. It can't contain more than %u characters.

The new password must be different from the old password or any passwords stored in the history records.	The new password must be different from the old password or any passwords stored in the history records.
The new password must be different from the old password by a minimum of four different characters.	The new password must be different from the old password by a minimum of four different characters.

UserAccounts/Network/Accounts

Message	Explanation
Username can't contain characters \ / : * ? < > @ and can't be a, al, or all.	Username can't contain characters \ / : * ? < > @ and can't be a, al, or all.
Invalid interface.	Invalid interface.
The user group doesn't exist.	The user group doesn't exist.
Invalid IP address.	Invalid IP address.
Insufficient right to perform the operation.	Insufficient right to perform the operation.
The user doesn't exist.	The user doesn't exist.
Invalid MAC address.	Invalid MAC address.
Maximum number of users already reached.	Maximum number of users already reached.
Insufficient right to perform the operation.	Insufficient right to perform the operation.
The user role isn't assigned to the user.	The user role isn't assigned to the user.
This user already exists.	This user already exists.
Username conflicted. Please change the name configuration.	Username conflicted. Please change the name configuration.
A local guest with the same name already exists.	A local guest with the same name already exists.
You must specify both the start date time and expiration date time.	You must specify both the start date time and expiration date time.
The expiration time must be later than the start time and the current system time.	The expiration time must be later than the start time and the current system time.
The new password is too short. It must contain at least %u characters.	The new password is too short. It must contain at least %u characters.
Invalid password composition. The new password must contain at least %u types and at least %u characters for each type.	Invalid password composition. The new password must contain at least %u types and at least %u characters for each type.
The new password cannot contain 3 or more repeated characters.	The new password cannot contain 3 or more repeated characters.
The new password cannot contain the username or reversed username.	The new password cannot contain the username or reversed username.
The new password must contain at least 4 different characters different from any previous password.	The new password must contain at least 4 different characters different from any previous password.
Cannot change password until the update-wait time expires.	Cannot change password until the update-wait time expires.
The new password must contain at least 4 different	The new password must contain at least 4 different characters.

characters.	
Operation failed. The system resource is not enough.	Operation failed. The system resource is not enough.
The new password is too long. It can't contain more than %u characters.	The new password is too long. It can't contain more than %u characters.
The new password must be different from the old password or any passwords stored in the history records.	The new password must be different from the old password or any passwords stored in the history records.
The new password must be different from the old password by a minimum of four different characters.	The new password must be different from the old password by a minimum of four different characters.

UserAccounts/UserGroup/IdentityMembers

Message	Explanation
Username can't contain characters \ / : * ? < > @ and can't be a, al, or all.	Username can't contain characters \ / : * ? < > @ and can't be a, al, or all.

UserAccounts/ExportNetworkUser

Message	Explanation
Username can't contain characters \ / : * ? < > @ and can't be a, al, or all.	Username can't contain characters \ / : * ? < > @ and can't be a, al, or all.

UserAccounts/Identity/Users

Message	Explanation
Username can't contain characters \ / : * ? < > @ and can't be a, al, or all.	Username can't contain characters \ / : * ? < > @ and can't be a, al, or all.
Invalid IP address.	Invalid IP address.
Not enough resources.	Not enough resources.
Invalid MAC address.	Invalid MAC address.
Invalid IP type.	Invalid IP type.
The IP or MAC address is already bound to an identity user.	The IP or MAC address is already bound to an identity user.
Operation failed.	Operation failed.
The device doesn't support the user identification feature.	The device doesn't support the user identification feature.

UserAccounts/Management/UserRoles

Message	Explanation
Can't remove the security-audit user role from the user: This user is the only user with the security-audit user role in the system.	Can't remove the security-audit user role from the user: This user is the only user with the security-audit user role in the system.
Maximum number of user roles for the user already reached.	Maximum number of user roles for the user already reached.
Not enough resources.	Not enough resources.
Insufficient right to perform the operation.	Insufficient right to perform the operation.
Can't configure the system predefined role.	Can't configure the system predefined role.
The user role isn't assigned to the user.	The user role isn't assigned to the user.

UserAccounts/UserGroups

Message	Explanation
The user group doesn't exist.	The user group doesn't exist.
Invalid IP address.	Invalid IP address.
Can't delete the user group: It has one or more local users.	Can't delete the user group: It has one or more local users.
Can't delete the default user group system.	Can't delete the default user group system.
Maximum number of users roles for the user group already reached.	Maximum number of users roles for the user group already reached.
Invalid path or nonexistent directory.	Invalid path or nonexistent directory.
Insufficient right to perform the operation.	Insufficient right to perform the operation.
Maximum number of user groups already reached.	Maximum number of user groups already reached.
The user role isn't assigned to the user.	The user role isn't assigned to the user.

UserAccounts/Guest/Accounts

Message	Explanation
The user group doesn't exist.	The user group doesn't exist.

UserAccounts/ApproveGuest

Message	Explanation
Insufficient right to perform the operation.	Insufficient right to perform the operation.
The user doesn't exist.	The user doesn't exist.
Maximum number of users already reached.	Maximum number of users already reached.

Insufficient right to perform the operation.	Insufficient right to perform the operation.
This user already exists.	This user already exists.
Invalid Email address.	Invalid Email address.
Username conflicted. Please change the name configuration.	Username conflicted. Please change the name configuration.
Validity date and time configuration is not complete.	Validity date and time configuration is not complete.

UserAccounts/GenerateGuestAccount

Message	Explanation
Insufficient right to perform the operation.	Insufficient right to perform the operation.
The user doesn't exist.	The user doesn't exist.
Maximum number of users already reached.	Maximum number of users already reached.
Insufficient right to perform the operation.	Insufficient right to perform the operation.
Insufficient suffixes to assign to users. Please pad the start suffix with leading zeros or reduce the user count.	Insufficient suffixes to assign to users. Please pad the start suffix with leading zeros or reduce the user count.
The expiration date and time should be later than the current date and time.	The expiration date and time should be later than the current date and time.
This user already exists.	This user already exists.
Username conflicted. Please change the name configuration.	Username conflicted. Please change the name configuration.
The suffix will exceed the maximum number. Please change the start suffix or the user count.	The suffix will exceed the maximum number. Please change the start suffix or the user count.
Validity date and time configuration is not complete.	Validity date and time configuration is not complete.

UserAccounts/ChangeMyPassword

Message	Explanation
The user doesn't exist.	The user doesn't exist.
The new password is not set.	The new password is not set.
Wrong Password.	Wrong Password.
The new password is too short. It must contain at least %u characters.	The new password is too short. It must contain at least %u characters.
Invalid password composition. The new password must contain at least %u types and at least %u characters for each type.	Invalid password composition. The new password must contain at least %u types and at least %u characters for each type.
The new password cannot contain 3 or more repeated characters.	The new password cannot contain 3 or more repeated characters.
The new password cannot contain the username or reversed username.	The new password cannot contain the username or reversed username.

The new password must contain at least 4 different characters different from any previous password.	The new password must contain at least 4 different characters different from any previous password.
Cannot change password until the update-wait time expires.	Cannot change password until the update-wait time expires.
The new password must contain at least 4 different characters.	The new password must contain at least 4 different characters.
Operation failed. The system resource is not enough.	Operation failed. The system resource is not enough.
The new password is too long. It can't contain more than %u characters.	The new password is too long. It can't contain more than %u characters.
The new password must be different from the old password or any passwords stored in the history records.	The new password must be different from the old password or any passwords stored in the history records.
The new password must be different from the old password by a minimum of four different characters.	The new password must be different from the old password by a minimum of four different characters.

UserAccounts/OldPasswordCheck

Message	Explanation
The user doesn't exist.	The user doesn't exist.
Wrong Password.	Wrong Password.

UserAccounts/ImportGuestAccount

Message	Explanation
Maximum number of users already reached.	Maximum number of users already reached.
Number of imported users: %d. Failed to import other users because of an error in line %d.	Number of imported users: %d. Failed to import other users because of an error in line %d.
Validity date and time configuration is not complete.	Validity date and time configuration is not complete.

UserAccounts/ImportNetworkUser

Message	Explanation
Maximum number of users already reached.	Maximum number of users already reached.
Number of imported users: %d. Failed to import other users because of an error in line %d.	Number of imported users: %d. Failed to import other users because of an error in line %d.
Import failed. Please check the configuration.	Import failed. Please check the configuration.
The device doesn't support the user identification feature.	The device doesn't support the user identification feature.

UserAccounts/ExportNetworkUser

Message	Explanation
The user account doesn't exist.	The user account doesn't exist.
The group doesn't exist.	The group doesn't exist.
The user and user group columns can't exist at the same time.	The user and user group columns can't exist at the same time.
The .csv file name must be specified.	The .csv file name must be specified.
The device doesn't support the user identification feature.	The device doesn't support the user identification feature.

UserAccounts/UserGroup/IdentityGroups

Message	Explanation
The group doesn't exist.	The group doesn't exist.
Failed to add the group because a conflict exists in group hierarchy.	Failed to add the group because a conflict exists in group hierarchy.
The device doesn't support the user identification feature.	The device doesn't support the user identification feature.

UserAccounts/UserGroup/IdentityMembers

Message	Explanation
The group doesn't exist.	The group doesn't exist.
The device doesn't support the user identification feature.	The device doesn't support the user identification feature.

UserAccounts/IdentityEnable

Message	Explanation
The device doesn't support the user identification feature.	The device doesn't support the user identification feature.

UserAccounts/Network/IdentityGroups

Message	Explanation
The device doesn't support the user identification feature.	The device doesn't support the user identification feature.

UserAccounts/IdentityUser

Message	Explanation
The device doesn't support the user identification feature.	The device doesn't support the user identification feature.

UserAccounts/ExportTemplet

Message	Explanation
The device doesn't support the user identification feature.	The device doesn't support the user identification feature.

UserAccounts/GuestConfigure

Message	Explanation
Invalid SMTP server URL.	Invalid SMTP server URL.

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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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 0—User accounts. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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-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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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.		<ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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-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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">• 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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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.

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- UserLog 1
 - UserLog/FlowLog/LogHosts 1
 - XML structure 1
 - Table description 1
 - Columns 1
 - UserLog/FlowLog/LogAttribute 2
 - 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 1
 - UserLog/FlowLog/LogHosts 1
 - XML structure 1
 - Table description 1
 - Columns 1
 - UserLog/FlowLog/LogAttribute 2
 - 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>
        <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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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.

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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 (_), minus(-), 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: <ul style="list-style-type: none">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
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 (_), minus(-), 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: <ul style="list-style-type: none">• 0—Inbound.• 1—Outbound.	N/A
AclType	ACL type.	N/A	Enumeration: <ul style="list-style-type: none">• 1—IPv4 ACL.• 2—IPv6 ACL.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AclGroup	ACL name or number.	N/A	<ul style="list-style-type: none"> ACL name: Case-insensitive string of 1 to 63 characters. ACL number: An unsigned integer in the range of 2000 to 3999. 	<p>An ACL name must start with an English letter and cannot be all.</p> <p>Only Apply an ACL at one direction. If want to change the ACL, must to delete the item and create a new item.</p>

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 (_), minus(-), 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: <ul style="list-style-type: none"> 0—Inbound. 1—Outbound. 	N/A
Type	Match type	Index	Enumeration: <ul style="list-style-type: none"> 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 (_), minus(-), 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: <ul style="list-style-type: none">• 0—Inbound.• 1—Outbound.	N/A
Type	Match type	Index	Enumeration: <ul style="list-style-type: none">• 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

Column name	Column description	Column type	Data type and restrictions	Remarks
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	UserProfileQMProfile
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 (_), minus(-), and dots (.). The name can start with an English letter or digit, and

Column name	Column description	Column type	Data type and restrictions	Remarks
				cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: <ul style="list-style-type: none"> • 0—Inbound. • 1—Outbound. 	N/A
SchedulingMode	Queue scheduling profile type	N/A	Enumeration: <ul style="list-style-type: none"> • 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 (_), minus(-), 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 (_), minus(-), 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: <ul style="list-style-type: none">• 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.	N/A
Type	Match type	N/A	Enumeration: <ul style="list-style-type: none"> • 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.

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Columns	6
HardwareQueue/UserProfileQueue	6
XML structure	6
Table description	7
Columns	7
MQC/UserProfileQosPolicy	7
XML structure	7
Table description	8
Columns	8
MQC/QoSPolicyCAR	8
XML structure	8
Table description	9
Columns	9
MQC/QoSPolicyAccount	13
XML structure	13
Table description	14
Columns	14
USERQOS/SessionIdentify	15
XML structure	15
Table description	15
Columns	15
USERQOS/Users	15
XML structure	15
Table description	16
Columns	16

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 (_), minus(-), 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: <ul style="list-style-type: none">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 (_), minus(-), 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: <ul style="list-style-type: none">• 0—Inbound.• 1—Outbound.	N/A
AclType	ACL type.	N/A	Enumeration: <ul style="list-style-type: none">• 1—IPv4 ACL.• 2—IPv6 ACL.	N/A
AclGroup	ACL name or	N/A	<ul style="list-style-type: none">• ACL name: Case-insensitive string of	An ACL name must start with an English letter and

Column name	Column description	Column type	Data type and restrictions	Remarks
	number.		1 to 63 characters. <ul style="list-style-type: none"> ACL number: An unsigned integer in the range of 2000 to 3999. 	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 (_), minus(-), and dots (.). The name can start with an English letter or digit, and

Column name	Column description	Column type	Data type and restrictions	Remarks
				cannot contain only digits. The name must be unique globally.
Direction	Application direction	Index	Enumeration: <ul style="list-style-type: none"> 0—Inbound. 1—Outbound. 	N/A
Type	Match type	Index	Enumeration: <ul style="list-style-type: none"> 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 (_), minus(-), 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: <ul style="list-style-type: none"> 0—Inbound. 1—Outbound. 	N/A
Type	Match type	Index	Enumeration: <ul style="list-style-type: none"> 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.
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

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 (_), minus(-), 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: <ul style="list-style-type: none"> 0—Inbound. 1—Outbound. 	N/A
SchedulingMode	Queue scheduling profile type	N/A	Enumeration: <ul style="list-style-type: none"> 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
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 (_), minus(-), 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 (_), minus(-), 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: <ul style="list-style-type: none">• 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	Authentication type	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> GreenActionType. GreenActionValue. 	
GreenActionType	Green action type	N/A	Enumeration: <ul style="list-style-type: none"> 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. 	<p>When GreenActionType is 1, send the packet.</p> <p>When GreenActionType is 2, remark DSCP value of the packet and send it.</p> <p>When GreenActionType is 3, remark IP precedence of the packet and send it.</p> <p>When GreenActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When GreenActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When GreenActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When GreenActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When GreenActionType is 8, remark local precedence of the packet</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				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 to 1 . When GreenActionType is 2 , GreenActionValue is 0 to 63 . When GreenActionType is 3 , 4 , 5 , 8 , GreenActionValue is 0 to 7 .
YellowAction	Specify behavior for yellow packets	Data structure	Members include: <ul style="list-style-type: none"> • YellowActionType. • YellowActionValue. 	
YellowActionType	Yellow Action Type	N/A	Enumeration: <ul style="list-style-type: none"> • 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

Column name	Column description	Column type	Data type and restrictions	Remarks
				the packet.
YellowActionValue	Yellow Action Value	N/A	Unsigned integer.	<p>When YellowActionType is 1, 10 or 19, YellowActionValue is invisible.</p> <p>When YellowActionType is 6 or 7, YellowActionValue is 0 to 1.</p> <p>When YellowActionType is 2, YellowActionValue is 0 to 63.</p> <p>When YellowActionType is 3, 4, 5, 8, YellowActionValue is 0 to 7.</p>
RedAction	Specify behavior for red packets	Data structure	<p>Members include:</p> <ul style="list-style-type: none"> • RedActionType. • RedActionValue. 	
RedActionType	Red Action Type	N/A	<p>Enumeration:</p> <ul style="list-style-type: none"> • 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. 	<p>When RedActionType is 1, send the packet.</p> <p>When RedActionType is 2, remark DSCP value of the packet and send it.</p> <p>When RedActionType is 3, remark IP precedence of the packet and send it.</p> <p>When RedActionType is 4, remark EXP of the MPLS packet and send it.</p> <p>When RedActionType is 5, remark 802.1p priority value of the packet and send it.</p> <p>When RedActionType is 6, remark CLP bit of the ATM packet and send it.</p> <p>When RedActionType is 7, remark DE bit of the FR packet and send it.</p> <p>When RedActionType is 8, remark local precedence of the packet and send it.</p> <p>When RedActionType is 10, drop the packet.</p> <p>When GreenActionType is 19, continue to process the packet.</p>
RedActionValue	Red Action Value	N/A	Unsigned integer.	<p>When RedActionType is 1, 10 or 19, RedActionValue is invisible.</p> <p>When RedActionType is</p>

Column name	Column description	Column type	Data type and restrictions	Remarks
				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>
      <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 : <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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

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

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: <ul style="list-style-type: none">• 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.

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>
  <InGroupQmpprofile></InGroupQmpprofile>
  <OutGroupQmpprofile></OutGroupQmpprofile>
  <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

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

Column name	Column description	Column type	Data type and restrictions	Remarks
Slot	Slot number	Index	Unsigned integer.	N/A
CPUID	CPUID number	Index	Unsigned integer.	N/A
AuthType	AuthType	Index	Enumeration : <ul style="list-style-type: none"> • 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 (_), minus(-), 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 : <ul style="list-style-type: none"> • 1—no configuration • 2—active • 3—inactive 	N/A
OutUserCAR	The status of outbound CAR on user profile	N/A	Enumeration : <ul style="list-style-type: none"> • 1—no configuration • 2—active • 3—inactive 	N/A
InUserQoSPolicy	The status of inbound Policy on user profile	N/A	Enumeration : <ul style="list-style-type: none"> • 1—no configuration • 2—active • 3—inactive 	N/A
OutUserQoS Policy	The status of outbound Policy on user profile	N/A	Enumeration : <ul style="list-style-type: none"> • 1—no configuration • 2—active • 3—inactive 	N/A
InUserGTS	The status of inbound GTS on user profile	N/A	Enumeration : <ul style="list-style-type: none"> • 1—no configuration • 2—active • 3—inactive 	N/A
OutUserGTS	The status of outbound GTS on user profile	N/A	Enumeration : <ul style="list-style-type: none"> • 1—no configuration • 2—active • 3—inactive 	N/A
InUserPfilter	The status of inbound packter	N/A	Enumeration : <ul style="list-style-type: none"> • 1—no configuration 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	filter on user profile		<ul style="list-style-type: none"> • 2—active • 3—inactive 	
OutUserPfilter	The status of outbound packter filter on user profile	N/A	Enumeration : <ul style="list-style-type: none"> • 1—no configuration • 2—active • 3—inactive 	N/A
OutUserQueue	The status of queue on user profile	N/A	Enumeration : <ul style="list-style-type: none"> • 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 (_), minus(-), 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 : <ul style="list-style-type: none"> • 1—no configuration • 2—active • 3—inactive 	N/A
OutGroupCAR	The status of outbound CAR on session group profile	N/A	Enumeration : <ul style="list-style-type: none"> • 1—no configuration • 2—active • 3—inactive 	N/A
InGroupQmprofile	The status of inbound qmprofile on session group profile	N/A	Enumeration : <ul style="list-style-type: none"> • 1—no configuration • 2—active • 3—inactive 	N/A
OutGroupQmprofile	The status of outbound qmprofile on session group profile	N/A	Enumeration : <ul style="list-style-type: none"> • 1—no configuration • 2—active • 3—inactive 	N/A
InGroupGTS	The status of inbound GTS on session group profile	N/A	Enumeration : <ul style="list-style-type: none"> • 1—no configuration • 2—active • 3—inactive 	N/A
OutGroupGTS	The status of outbound GTS on session group profile	N/A	Enumeration : <ul style="list-style-type: none"> • 1—no configuration • 2—active • 3—inactive 	N/A

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UserProfile

UserProfile/Base

Message	Explanation
Number of user profiles and session group profiles exceeded the limit. User Profile 数和Session Group Profile 数已经达到上限。	When create, the number of user profiles and session group profiles exceeded the limit. 配置 User Profile 和 Session Group Profile 时 User Profile 数和 Session Group Profile 数已经达到上限
The profile name has been used by another type of profile. 该配置模板名已经被另一类型的配置模板引用。	When create, the profile name has been used by another type of profile. 创建模板时，模板名称已被占用。
The session group profile not support. 不支持Session Group Profile。	The session group profile not support. 不支持配置Session Group Profile。

UserProfile/Gts

Message	Explanation
The operation conflicts with some existing configurations. 该操作与已经存在的配置发生冲突。	The operation conflicts with some existing configurations, such as GTS. 配置 GTS 与队列调度策略冲突。
PIR should not be smaller than CIR. PIR不能小于CIR.	PIR should not be smaller than CIR. 流量整形动作峰值速率不能小于承诺信息速率。

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V2VTunnel

V2VTunnel/Tunnel

This table contains information about V2V tunnels.

XML structure

```
<V2VTunnel>
  <Tunnel>
    <Tunnels>
      <VsiName></VsiName>
      <ClientID></ClientID>
      <MacAddress></MacAddress>
      <ServerID></ServerID>
      <ServerDescription></ServerDescription>
    </Tunnels>
  </Tunnel>
</V2VTunnel>
```

Table description

Item	Description
Feature name	V2VTunnel
Table name	Tunnel
Table type	Multi-instance table
Row name	Tunnels
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, case-insensitive. Length: 1 to 31 characters.	N/A
ClientID	V2V virtual terminal access ID	N/A	Unsigned integer. Value range:1 to 99999.	N/A
MacAddress	V2V virtual terminal MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example:00-0c-af-e3-5d-c0.
ServerID	V2V virtual	N/A	Unsigned integer.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	terminal convergence ID		Value range:1 to 99999.	
ServerDescription	Service name	N/A	String. Length: 1 to 31 characters.	N/A

V2VTunnel/FrameType

This table contains information about the V2V tunnel frame type.

XML structure

```
<V2VTunnel>
  <FrameType>
    <IsArpFrameType></IsArpFrameType>
  </FrameType>
</V2VTunnel>
```

Table description

Item	Description
Feature name	V2VTunnel
Table name	FrameType
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
IsArpFrameType	V2V tunnel frame type	N/A	Boolean: <ul style="list-style-type: none"> true—ARP false—IP (default) 	N/A

V2VTunnel/SpecIfMode

This table contains information about the interface link type.

XML structure

```
<V2VTunnel>
  <SpecIfMode>
    <SpecIfModes>
      <IfIndex></IfIndex>
      <Direction></Direction>
    </SpecIfModes>
  </SpecIfMode>
</V2VTunnel>
```

Table description

Item	Description
Feature name	V2VTunnel
Table name	SpecIfMode
Table type	Multi-instance table
Row name	SpecIfModes
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 for your product. For information about IfIndex, see the Appendix in <i>Ifmgr NETCONF XML API Configuration Reference</i> .
LinkMode	Interface link type	N/A	Enumeration: <ul style="list-style-type: none">1—Uplink interface.2—Downlink interface.	N/A

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V2VTunnel

V2VTunnel/Tunnel

This table contains information about V2V tunnels.

XML structure

```
<V2VTunnel>
  <Tunnel>
    <Tunnels>
      <VsiName></VsiName>
      <ClientID></ClientID>
      <MacAddress></MacAddress>
      <ServerID></ServerID>
      <ServerDescription></ServerDescription>
      <LinkStatus></LinkStatus>
    </Tunnels>
  </Tunnel>
</V2VTunnel>
```

Table description

Item	Description
Feature name	V2VTunnel
Table name	Tunnel
Table type	Multi-instance table
Row name	Tunnels
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VsiName	VSI name	Index	String, case-insensitive. Length: 1 to 31 characters.	N/A
ClientID	V2V virtual terminal access ID	N/A	Unsigned integer. Value range: 1 to 99999.	N/A
MacAddress	V2V virtual terminal MAC address	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example:00-0c-af-e3-5d-c0.
ServerID	V2V virtual terminal	N/A	Unsigned integer. Value range: 1 to 99999.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	convergence ID			
ServerDescription	Service name	N/A	String. Length: 1 to 31 characters.	N/A
LinkStatus	Link status	N/A	Boolean: <ul style="list-style-type: none"> true—connected. false—disconnected. 	N/A

V2VTunnel/FrameType

This table contains information about V2Vtunnel frame type.

XML structure

```
<V2VTunnel>
  <FrameType>
    <IsArpFrameType></IsArpFrameType>
  </FrameType>
</V2VTunnel>
```

Table description

Item	Description
Feature name	V2VTunnel
Table name	FrameType
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IsArpFrameType	V2V tunnel frame type	N/A	Boolean: <ul style="list-style-type: none"> true—ARP. false—IP. 	N/A

V2VTunnel/SpecIfMode

This table contains information about the interface link type.

XML structure

```
<V2VTunnel>
  <SpecIfMode>
    <SpecIfModes>
      <IfIndex></IfIndex>
      <LinkMode></LinkMode>
    </SpecIfModes>
  </SpecIfMode>
</V2VTunnel>
```

Table description

Item	Description
Feature name	V2VTunnel
Table name	SpecIfMode
Table type	Multi-instance table
Row name	SpecIfModes
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> .
LinkMode	Link type	N/A	Enumeration: <ul style="list-style-type: none">1—Uplink interface.2—Downlink interface.	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: <ul style="list-style-type: none">true—Enablefalse—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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type Value 	N/A
Type	The form of pre-shared key	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> • AddressType • Address • Port 	N/A
AddressType	The type of the primary server address	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • AddressType • Address • Port 	N/A
AddressType	The type of the secondary server address	N/A	Enumeration: <ul style="list-style-type: none"> • 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 (.).
Enable	Whether the VAM client is enabled	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
  </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: <ul style="list-style-type: none"> AddressType Address Port 	N/A
AddressType	The type of the primary server address	N/A	Enumeration: <ul style="list-style-type: none"> 1—IPv4 2—IPv6 3—Host 	Must not be empty.
Address	The host name or IP address of	N/A	String	IPv4 address.

Column name	Column description	Column type	Data type and restrictions	Remarks
	the primary VAM server.			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
SecServer	The secondary server	Data structure	Members include: <ul style="list-style-type: none"> • AddressType • Address • Port 	N/A
AddressType	The type of the secondary server address	N/A	Enumeration: <ul style="list-style-type: none"> • 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 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
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: <ul style="list-style-type: none"> 0—Primary server 1—Secondary server 	N/A
IPVersion	The type of the private address under the ADVPN tunnel	Index	Enumeration: <ul style="list-style-type: none"> 0—IPv4 1—IPv6 	N/A
EnableStatu	Whether the VAM	N/A	Boolean:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
s	client is enabled		<ul style="list-style-type: none"> • true—Enabled • false—Disabled 	
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: <ul style="list-style-type: none"> • 0—Offline • 1—Init1 • 2—Init2 • 3—Reg • 4—Online1 • 5—Online2 • 6—Dumb 	N/A
ClientType	VAM client type	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 0—Unknown • 1—None • 2—DES 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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 	
AuthenticationAlg	Negotiated authentication algorithm	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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>

```

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: <ul style="list-style-type: none"> 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>
      <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	N/A	Enumeration:	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	of a rule		<ul style="list-style-type: none"> 1—Permit. 2—Deny 3—Discard 	
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: <ul style="list-style-type: none"> StartAddr EndAddr StartPort EndPort 	N/A
StartAddr	Matching start address of the source IPv6 address range	N/A	String.	IPv4 address.
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: <ul style="list-style-type: none"> StartAddr EndAddr StartPort EndPort 	N/A
StartAddr	Matching start address of the destination IPv6 address range	N/A	String.	IPv4 address
EndAddr	Matching end	N/A	String.	IPv4 address.

Column name	Column description	Column type	Data type and restrictions	Remarks
	address of the destination IPv6 address range			
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: <ul style="list-style-type: none">1—Permit.2—Deny3—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: <ul style="list-style-type: none">StartAddrEndAddrStartPortEndPort	N/A
StartAddr	Matching start address of the source IPv6 address range	N/A	String.	IPv6 address.
EndAddr	Matching end address of the source IPv6	N/A	String.	IPv6 address.

Column name	Column description	Column type	Data type and restrictions	Remarks
	address range			
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled false—Disabled 	N/A
PacketSent	The number of packets sent to the VAM server	Data structure	Members include: <ul style="list-style-type: none"> 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	N/A	Unsigned integer	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	complete			
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
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: <ul style="list-style-type: none"> InitResNum RecvInitFinNum AuthenReqNum RegResNum AddrResNum NetworkRegResNum UpdateResNum HubInfoReqNum DataFlowInfoReqNum 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> LogoutResNum RecvKeepaliveNum RecvErrorNum RecvUnkonwnNum 	
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
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

Column name	Column description	Column type	Data type and restrictions	Remarks
RecvUnkonwnNum	The number of Unkonwn	N/A	Unsigned integer	N/A

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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: <ul style="list-style-type: none">true—Enablefalse—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: <ul style="list-style-type: none">4—IPv46—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: <ul style="list-style-type: none">4—IPv46—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>
  </AdvpnDomain>
</AdvpnDomains>
```



```

</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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Method ISPName 	N/A
Method	Authentication method	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> EncryptAlgItem 	EncryptAlgItem: the maxOccurs is 9.
EncryptAlgItem	The algorithm for VAM protocol packet encryption	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type Value 	N/A
Type	The form of pre-shared key	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <AclMode></AclMode>
      <AclNum></AclNum>
      <AclName></AclName>
    </IPv4Shortcut>
    <IPv6Shortcut>
      <AclMode></AclMode>
      <AclNum></AclNum>
      <AclName></AclName>
    </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: <ul style="list-style-type: none"> • AclMode • AclNum • AclName 	N/A
AclMode	ACL mode	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • AclMode • AclNum • AclName 	N/A
AclMode	ACL mode	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> AuthenAlgItem 	AuthenAlgItem: the maxOccurs is 5.
AuthenAlgItem	The algorithm for VAM protocol packet authentication	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Method ISPNName 	N/A
Method	Authentication method	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> EncryptAlgItem 	EncryptAlgItem: the maxOccurs is 9.
EncryptAlgItem	The algorithm for VAM protocol packet encryption	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type Value 	N/A
Type	The form of pre-shared key	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">true—Enabledfalse—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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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>
      <AclMode></AclMode>
      <AclNum></AclNum>
      <AclName></AclName>
    </IPv4Shortcut>
    <IPv6Shortcut>
      <AclMode></AclMode>
      <AclNum></AclNum>
      <AclName></AclName>
    </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: <ul style="list-style-type: none"> • AclMode • AclNum • AclName 	N/A
AclMode	ACL mode	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • AclMode • AclNum • AclName 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AclMode	ACL mode	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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 (.).
NetworkAddresses	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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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: <ul style="list-style-type: none">true.false (default).	N/A
ShutdownIfWhenOffline	Whether all user-side ports will be shut down when the PEX is offline	N/A	Boolean: <ul style="list-style-type: none">true.false (default).	N/A

VBR/PE/Configuration

This table manages configuration for PEXs.

XML structure

```
<VBR>
  <PE>
    <Configuration>
      <Save/>
      <Recover>
        <Associate></Associate>
        <Name></Name>
      </Recover>
    </Configuration>
  </PE>
</VBR>
```

Response XML structure

```
<VBR>
  <PE>
    <Configuration>
      <Name></Name>
    </Configuration>
  </PE>
</VBR>
```

Table description

Item	Description
Feature name	VBR
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
Associate	Virtual chassis number or slot number of a PEX	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.
Name	Configuration file	N/A	String.	The file name is in the

Column name	Column description	Column type	Data type and restrictions	Remarks
	name		Length: 1 to 255 characters.	format of <i>pex_peid.cfg</i> . The <i>peid</i> argument represents the virtual chassis number or slot number of the PEX. For example: <i>pex_100.cfg</i> .

Responded columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Configuration file name	N/A	String. Length: 1 to 255 characters.	The configuration file name is <i>pex.cfg</i> . This object responds to the save operation.

VBR/PE/RegisterVlan

This table registers VLAN information of a lower-tier PEX with the upper-tier PEX.

XML structure

```

<VBR>
  <PE>
    <RegisterVlan>
      <VlanAction></VlanAction>
      <Ecid></Ecid>
      <VlanList></VlanList>
    </RegisterVlan>
  </PE>
</VBR>

```

Responded XML structure

```

<VBR>
  <PE>
    <RegisterVlan>
      <VlanList></VlanList>
    </RegisterVlan>
  </PE>
</VBR>

```


Table description

Item	Description
Feature name	VBR
Table name	RegisterVlan
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanAction	VLAN information register action	N/A	Boolean: <ul style="list-style-type: none"> True-Add VLAN informatio. False- Delete VLAN information. 	<ul style="list-style-type: none"> N/A
Ecid	E-channel Identifier	N/A	Unsigned integer. Value range: 1 to 4094	N/A
VlanList	List of VLANs from the lower-tier PEX	N/A	Numeric string. It is a comma-separated list of VLAN items. <ul style="list-style-type: none"> The string can not end with a comma (,) or hyphen (-), or include any whitespace characters. 	<ul style="list-style-type: none"> Each item specifies a VLAN or a VLAN range in the format of <i>vlan-id1-vlan-id2</i>. For example: 1, 2, 3, 5-8, 10-20. VLAN ID range: 1 to 4094

Responded columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VlanList	List of VLANs from the lower-tier PEX	N/A	Numeric string. It is a comma-separated list of VLAN items. <ul style="list-style-type: none"> The string can not end with a comma (,) or hyphen (-), or include any whitespace characters. 	<ul style="list-style-type: none"> Each item specifies a VLAN or a VLAN range in the format of <i>vlan-id1-vlan-id2</i>. For example: 1, 2, 3, 5-8, and 10-20. VLAN ID range: 1 to 4094

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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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true • false (default). 	N/A

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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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • true—Shut down. • false—Not shut down. 	N/A

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VCF

VCF/Topos

This table contains VCF topology information.

XML structure

```
<VCF>
  <Topos>
    <TopoItem>
      <IfIndex></IfIndex>
      <MacAddress></MacAddress>
      <PeerInterface></PeerInterface>
      <LocalInterface></LocalInterface>
      <Role></Role>
      <SystemName></SystemName>
      <PeerIP></PeerIP>
      <LoopbackIP></LoopbackIP>
      <Loopback1IP></Loopback1IP>
    </TopoItem>
  </Topos>
</VCF>
```

Table description

Item	Description
Feature name	VCF
Table name	Topos
Table type	Multi-instance table
Row name	TopoItem
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
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

Column name	Column description	Column type	Data type and restrictions	Remarks
				information about IfIndex, see "Appendix" in Ifmgr NETCONF XML API Configuration
MacAddress	MAC address	index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
PeerInterface	Neighbor interface name	index	String. Length: 1 to 47 characters. Enumeration:	
Role	Neighbor role	N/A	<ul style="list-style-type: none"> • 1—spine. • 2—leaf. • 3—access. • 4—computer. 	
LocalInterface	Interface name	N/A	String. Length: 1 to 47 characters.	
SystemName	System name	N/A	String. Length: 0 to 255 characters.	0 denotes Null.
PeerIP	Neighbor management address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
LoopbackIP	Neighbor Loopback0 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.
Loopback1IP	Neighbor Loopback1 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1.

VCF/Role

This table contains VCF role name information.

XML structure

```

<VCF>
  <Role>
    <Name></Name>
  </Role>
</VCF>

```


Table description

Item	Description
Feature name	VCF
Table name	Role
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	Role name	N/A	String: <ul style="list-style-type: none">• access• leaf• spine• computer	

VCF/Underlay

This table contains VCF underlay information.

XML structure

```
<VCF>
  <Underlay>
    <PauseStatus></PauseStatus>
    <Completion></Completion>
    <Maddr></Maddr>
    <Mask></Mask>
    <Mac></Mac>
    <StandByMac></StandByMac>
    <SN></SN>
    <Execution></Execution>
  </Underlay>
</VCF>
```


Table description

Item	Description
Feature name	VCF
Table name	Underlay
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PauseStatus	Underlay pause status	N/A	Boolean: <ul style="list-style-type: none"> true—pause false—running (default) 	
Completion	Underlay completion	N/A	Boolean: <ul style="list-style-type: none"> true—completion false—incompletion (default) 	If Vlan-interface4094 or Vsi-interface4094 have ipv4, completion status will be set true.
Maddr	Management address	N/A	Unsigned integer. Length: 32 bits.	Vlan-interface4094 or Vsi-interface4094 ipAdress.
Mask	Management address Mask	N/A	Unsigned integer. Length: 32 bits.	Vlan-interface4094 or Vsi-interface4094 mask .
Mac	Bridge Mac	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
StandByMac	Standby Original Bridge Mac	N/A	Six groups of two hexadecimal digits, hyphen-separated	StandByMac default 00-00-00-00-00-00. If irf mode, "StandByMac" means standby original Bridge Mac .Example: 00-0c-af-e3-5d-c1.
SN	Device serial number	N/A	String	
Execution	Finished phase	N/A	String	Example: 1.0.1, 1.0.2, means, Underlay has finished phase: 1.0.1, 1.0.2

Contents

VCF1

 VCF/Topos1

VCF

VCF/Topos

Message	Explanation
The role name only support spine leaf and access.	The role name only support spine, leaf and access.

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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	<p>Number string.</p> <p>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.</p> <p>The string must not end with a comma or hyphen, or include any whitespace characters.</p>	Example: 2,3,5-8,10-20.
DestoryVlanList	List of VLANs to delete	<p>Number string.</p> <p>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.</p> <p>The string must not end with a comma or hyphen, or include any whitespace characters.</p>	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	<p>Number string.</p> <p>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.</p> <p>The string must not end with a comma or hyphen, or include any whitespace characters.</p>	<p>Example: 2,3,5-8,10-20.</p> <p>Responded only when CreateVlanList is submitted.</p>
DestoryVlanList	List of VLANs that have been deleted successfully	<p>Number string.</p> <p>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.</p> <p>The string must not end with a comma or hyphen, or include any whitespace characters.</p>	<p>Example: 2,3,5-8,10-20.</p> <p>Responded only when DestoryVlanList is submitted.</p>

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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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
lflIndex	Interface index	Index	Unsigned integer.	Some versions support interface name. For relevant information, see the XSD document of your product. For information about lflIndex, see "Appendix" in lfmgr 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: <ul style="list-style-type: none">• true• false	N/A
Mode	Voice VLAN security mode.	N/A	Enumeration: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Trust. CoS. 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> DSCP. 	
Trust	Whether the QoS priority settings is trusted for incoming voice VLAN packets.	N/A	Boolean: <ul style="list-style-type: none"> 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.

VLAN/MACPorts

This table contains MAC-based VLAN information for a port.

XML structure

```

<VLAN>
  <MACPorts>
    <Interface>
      <IfIndex></IfIndex>
      <MACVlanEnable></MACVlanEnable>
      <MACVlanTriggerEnable></MACVlanTriggerEnable>
    </Interface>
  </MACPorts>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	MACPorts
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 ports where MAC-based VLAN can be configured are included. 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.
MACVlanEnable	MAC-based vlan enable on the port.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Disable. 2—Enable. 	N/A
MACVlanTrigger Enable	MAC-based vlan Trigger enable on the port.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Disable. 2—Enable. 	N/A

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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">1—Access.2—Trunk.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 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	<p>Number string.</p> <p>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.</p> <p>The string cannot end with a comma or hyphen, or include any whitespace characters.</p>	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	<p>Number string.</p> <p>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.</p> <p>The string cannot end with a comma or hyphen, or include any whitespace characters.</p>	<p>Example: 1,2,3,5-8,10-20.</p> <p>The column is available only for trunk and hybrid ports.</p>
PermitVlanList	List of permitted VLANs on the port	N/A	<p>Number string.</p> <p>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.</p> <p>The string cannot end with a comma or hyphen, or include any whitespace characters.</p>	<p>Example: 1,2,3,5-8,10-20.</p> <p>The column is available only for trunk ports.</p>

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: <ul style="list-style-type: none">truefalse	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.		<ul style="list-style-type: none"> true false 	
GlobalCustomerTPID	Whether customer TPID for all interfaces can be configured.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
QinQState	Whether QinQ state can be configured on ports.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
ServiceTPID	Whether service TPID can be configured on ports.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
CustomerTPID	Whether customer TPID can be configured on ports.	N/A	Boolean: <ul style="list-style-type: none"> true false 	N/A
TransVlan	Whether transparent VLAN can be configured on ports.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 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>

```

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: <ul style="list-style-type: none"> true false 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	discovery.			
Mode	Voice VLAN security mode.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Trust. CoS. DSCP. 	N/A
Trust	Whether the QoS priority settings is trusted for incoming voice VLAN packets.	N/A	Boolean: <ul style="list-style-type: none"> 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.

VLAN/MACPorts

This table contains MAC-based VLAN information for a port.

XML structure

```

<VLAN>
  <MACPorts>
    <Interface>
      <IfIndex></IfIndex>

```



```

    <MACVlanEnable></MACVlanEnable>
    <MACVlanTriggerEnable></MACVlanTriggerEnable>
  </Interface>
</MACPorts>
</VLAN>

```

Table description

Item	Description
Feature name	VLAN
Table name	MACPorts
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 ports where MAC-based VLAN can be configured are included. 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.
MacVlanEnable	MAC-based vlan enable on the port.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Disable. 2—Enable. 	N/A
MACVlanTriggerEnable	MAC-based vlan Trigger enable on the port.	N/A	Enumeration: <ul style="list-style-type: none"> 1—Disable. 2—Enable. 	N/A

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Vlan

Vlan/Vlans

Message	Explanation
Please set the link type of the port to access first.	During executing merge operation for vlan type of interfaces info table, please set the link type of the port to access first.
The VLAN doesn't support the operation.	During executing merge operation for vlan type of interfaces info table, the VLAN doesn't support it.
Can't change the link type of %s because it is not an access port.	During executing merge operation for vlan type of interfaces info table, it can't change the link type because it is not an access port.
Failed to configure some VLANs.	During executing set operation for adding vlan for port by vlan list, it failed to configure some VLANs.
Can't assign ports to or remove ports from the default VLAN.	During executing merge operation for port range of vlan info table, it can't assign ports to or remove ports from the default VLAN.
Invalid IP address or subnet mask.	During executing merge operation for IpInfo of vlan info table, the IP address or subnet mask is invalid.
The IP address you entered is in the same subnet as the IP address of another interface.	-
The VLAN name already exists.	During executing merge operation for vlan name of vlan info table, it already exists.
Cannot use the default name of another VLAN.	During executing merge operation for vlan name of vlan info table, it cannot use the default name of another VLAN.
The port %u doesn't exist.	During executing merge operation for port range of vlan info table, the port doesn't exist.
The port %u is not an access port.	During executing merge operation for port range of vlan info table, the port is not an access port.
Allocated VLANs can't be set as the port PVID.	During executing merge operation for port range of vlan info table, allocated VLANs can't be set as the port PVID.
Maximum number of addresses on the interface already reached.	During executing merge operation for IpInfo of vlan info table, the maximum number of addresses on the

	interface already reached.
Please configure the primary address first.	During executing merge operation for IpInfo of vlan info table, please configure the primary address first.
Please delete secondary addresses first.	During executing merge operation for IpInfo of vlan info table, please delete secondary addresses first.
Address types don't match.	During executing merge operation for IpInfo of vlan info table, address types don't match.
The IP address doesn't exist.	During executing merge operation for IpInfo of vlan info table, the IP address doesn't exist.
Operation failed.	During executing merge operation for IpInfo of vlan info table, the operation failed.
This IP address has been assigned to another MDC.	During executing merge operation for IpInfo of vlan info table, this IP address has been assigned to another MDC.
Can't change a primary IP address to a secondary IP address.	During executing merge operation for IpInfo of vlan info table, it can't change a primary IP address to a secondary IP address.
This address conflicts with the IP address of another interface.	During executing merge operation for IpInfo of vlan info table, this address conflicts with the IP address of another interface.
Operation is not supported.	During executing set operation for voice-vlan qos, the operation is not supported.
The VLAN doesn't exist.	During executing merge operation for vlans table, the VLAN doesn't exist.
MAC VLAN can be enabled on only hybrid ports.	During executing set operation for mac ports table, MAC VLAN can be enabled on only hybrid ports.
Please disable MAC VLAN trigger first.	During executing set operation for mac ports table, Please disable MAC VLAN trigger first.
Operation is not supported.	During executing set operation for mac ports table, Operation is not supported.

Vlan/AccessInterfaces

Message	Explanation
The VLAN doesn't exist.	During executing merge operation for PVID of AccessInterfaces table, the VLAN doesn't exist.

This is not a hybrid port.	During executing merge operation for PVID of AccessInterfaces table, this is not a hybrid port.
This is not a trunk port.	During executing merge operation for PVID of AccessInterfaces table, this is not a trunk port.
This is not an access port.	During executing merge operation for PVID of AccessInterfaces table, this is not an access port.
The VLAN doesn't exist.	During executing merge operation for PVID of AccessInterfaces table, the VLAN doesn't exist.

Vlan/VoiceInfo

Message	Explanation
Can't change the port mode because the port is assigned to the voice VLAN.	During executing set operation for mode of voice info table, it can't change the port mode because the port is assigned to the voice VLAN.
Can't change the port mode because the access port is enabled with the voice VLAN feature.	During executing set operation for mode of voice info table, it can't change the port mode because the access port is enabled with the voice VLAN feature.
Can't change the voice VLAN mode to security, because some ports in the VLAN don't support this mode.	During executing set operation for mode of voice info table, it can't change the voice VLAN mode to security, because some ports in the VLAN don't support this mode.
Please create the VLAN first.	During executing set operation for voice info table, please create the VLAN first.

Vlan/VoiceOUI

Message	Explanation
Invalid MAC address.	During executing set operation for address of voiceOUI table, the MAC address is invalid.
Invalid OUI mask.	During executing set operation for address of voiceOUI table, the OUI mask is invalid.
Maximum number of OUI addresses already reached.	-
The OUI address already exists.	During executing set operation for address of voiceOUI table, the OUI address already exists.

Not enough resources available.	During executing set operation for address of voiceOUI table, no enough resources are available.
---------------------------------	--------------------------------------------------------------------------------------------------

Vlan/VoicePorts

Message	Explanation
The VLAN is not a voice VLAN.	During executing set operation for voice port table, the VLAN is not a voice VLAN.
Another voice VLAN has been enabled on this port.	During executing set operation for voice port table, another voice VLAN has been enabled on this port.
Trunk and hybrid ports that are in automatic mode and enabled with the voice VLAN feature can't be added to or removed from the voice VLAN manually.	During executing set operation for voice port table, trunk and hybrid ports that are in automatic mode and enabled with the voice VLAN feature can't be added to or removed from the voice VLAN manually.
Can't delete the voice VLAN	-
Can't change the link type of trunk or hybrid ports that are enabled with the voice VLAN feature.	During executing set operation for vlan port table, it can't change the link type of trunk or hybrid ports that are enabled with the voice VLAN feature.
Can't configure QoS settings on ports that are enabled with the voice VLAN feature.	During executing set operation for voice port table, it can't configure QoS settings on ports that are enabled with the voice VLAN feature.
Can't configure nonstatic VLANs as voice VLANs.	During executing set operation for voice port table, it can't configure nonstatic VLANs as voice VLANs.
Parameter settings conflict.	During executing set operation for voice port table, parameter settings conflict.
Can't enable the automatic mode on an access port.	During executing set operation for voice port table, it can't enable the automatic mode on an access port.
Can't enable the voice VLAN feature on trunk or hybrid ports that are operating in automatic mode and have been assigned to voice VLANs.	During executing set operation for voice port table, it can't enable the voice VLAN feature on trunk or hybrid ports that are operating in automatic mode and have been assigned to voice VLANs.
Can't configure the system default VLAN as a voice VLAN.	During executing set operation for voice port table, it can't configure the system default VLAN as a voice VLAN.
Super VLANs don't support the configuration.	During executing set operation for voice port table, super VLANs don't support the configuration.
Can't configure protocol-based VLANs as	During executing set operation for voice port table,

voice VLANs.	can't configure protocol-based VLANs as voice VLANs.
--------------	------------------------------------------------------

Vlan/VLANMapping

Message	Explanation
Can't enable network-side many-to-one VLAN mapping on the port, because user-side many-to-one VLAN mapping has been enabled.	During executing set operation for VLAN Mapping table, can't enable network-side many-to-one VLAN mapping on the port, because user-side many-to-one VLAN mapping has been enabled.
Can't enable user-side many-to-one VLAN mapping on the port, because network-side many-to-one VLAN mapping has been enabled.	During executing set operation for VLAN Mapping table, can't enable user-side many-to-one VLAN mapping on the port, because network-side many-to-one VLAN mapping has been enabled.
The input translated or nested VLANs conflict with existing VLAN mapping entries on the interface.	During executing set operation for VLAN Mapping table, the input translated or nested VLANs conflict with existing VLAN mapping entries on the interface.
The input original VLANs conflict with existing VLAN mapping entries on the interface.	During executing set operation for VLAN Mapping table, the input original VLANs conflict with existing VLAN mapping entries on the interface.
The VLAN mapping configuration conflicts with QinQ transparent VLAN configuration on the interface.	During executing set operation for VLAN Mapping table, the VLAN mapping configuration conflicts with QinQ transparent VLAN configuration on the interface.
The configuration conflicts with QinQ configuration.	During executing set operation for VLAN Mapping table, the configuration conflicts with QinQ configuration.
Failed to remove VLAN mapping configuration from the interface. Please make sure the removed VLANs are in the configured VLAN range.	During executing set operation for VLAN Mapping table, failed to remove VLAN mapping configuration from the interface. Please make sure the removed VLANs are in the configured VLAN range.
Configuration failed because of conflicts.	During executing set operation for VLAN Mapping table, configuration failed because of conflicts.
The operation is not supported on the port.	During executing set operation for VLAN Mapping table, the operation is not supported on the port.
Not enough resources for the operation on the interface.	During executing set operation for VLAN Mapping table, Not enough resources for the operation on the interface.
Can't execute the command multiple times on the interface. To modify the configuration, first remove the original configuration.	During executing set operation for VLAN Mapping table, can't execute the command multiple times on the interface. To modify the configuration, first remove the original configuration.

To modify the two-to-three VLAN mapping, first remove the original configuration.	During executing set operation for VLAN Mapping table, first remove the original configuration when to modify the two-to-three VLAN mapping.
Can't configure both two-to-three VLAN mapping and two-to-two VLAN mapping for the same double-tagged packets on the interface.	During executing set operation for VLAN Mapping table, can't configure both two-to-three VLAN mapping and two-to-two VLAN mapping for the same double-tagged packets on the interface.
Configuration failed on the interface.	During executing set operation for VLAN Mapping table, configuration failed on the interface.
Cannot map VLAN to itself.	During executing set operation for VLAN Mapping table, cannot map VLAN to itself.
The end VLAN ID must be equal to or greater than the start VLAN ID.	During executing check operation for VLAN range list , the end VLAN ID must be equal to or greater than the start VLAN ID.
The input original VLAN range(s) overlapped.	During executing check operation for CVLAN range cross , the input original VLAN range(s) overlapped.
Please input both the inner and outer VLAN IDs.	During executing set operation for VLAN Mapping 0To2 table, please input both the inner and outer VLAN IDs.
Invalid interface name or interface index.	-
This operation is not supported on the interface.	During executing set operation for VLAN Mapping 2To3 table, this operation is not supported on the interface.
Can't configure both an original outer VLAN ID range and an original inner VLAN ID range for the two-to-three VLAN mapping.	During executing set operation for VLAN Mapping 2To3 table, can't configure both an original outer VLAN ID range and an original inner VLAN ID range for the two-to-three VLAN mapping.
Please input the original outer VLAN ID, the original inner VLAN ID, the translated outer VLAN ID, and the translated inner VLAN ID.	During executing set operation for VLAN Mapping 2To2 table, please input the original outer VLAN ID, the original inner VLAN ID, the translated outer VLAN ID, and the translated inner VLAN ID.
Please input the translated VLAN ID or nested VLAN ID.	During executing set operation for VLAN Mapping 1To1 or 1To2 table, please input the translated VLAN ID or nested VLAN ID.
Please input the original outer VLAN ID or VLAN ID range, original inner VLAN ID or VLAN ID range, and the nested VLAN ID.	During executing set operation for VLAN Mapping 2To3 table, please input the original outer VLAN ID or VLAN ID range, original inner VLAN ID or VLAN ID range, and the nested VLAN ID.

Please input the original VLAN ID or VLAN ID range, and the translated VLAN ID.	During executing set operation for VLAN Mapping NTo1 table, please input the original VLAN ID or VLAN ID range, and the translated VLAN ID.。
Please specify both the TranslatedOuterVlan label and the TranslatedInnerVlan label, or specify none of them.	During executing set operation for VLAN Mapping 2To2 table, please specify both the TranslatedOuterVlan label and the TranslatedInnerVlan label, or specify none of them.
Please specify both the ServiceOuterVlan label and the ServiceInnerVlan label, or specify none of them.	During executing set operation for VLAN Mapping 0To2 table, please specify both the ServiceOuterVlan label and the ServiceInnerVlan label, or specify none of them.
The configuration conflicts with two-to-two VLAN mapping on the port.	During executing set operation for VLAN Mapping 2To2 table,the configuration conflicts with two-to-two VLAN mapping on the port.
The configuration conflicts with network-side many-to-one VLAN mapping on the port.	During executing set operation for VLAN Mapping NTo1 table, the configuration conflicts with network-side many-to-one VLAN mapping on the port.

Vlan/QinQ

Message	Explanation
Failed to set Ethernet-type on the port because QinQ has been enabled.	During executing set operation for QinQ table, failed to set Ethernet-type on the port because QinQ has been enabled.
Failed to enable QinQ on the port because the Ethernet-type setting has been configured.	During executing set operation for QinQ table, failed to enable QinQ on the port because the Ethernet-type setting has been configured.
The input inner VLAN conflicts with existing VLAN mappings on the interface.	During executing set operation for QinQ table, the input inner VLAN conflicts with existing VLAN mappings on the interface.
Please first remove VLAN mapping configuration from the port.	During executing set operation for QinQ table, Please first remove VLAN mapping configuration from the port.
The transparent VLANs conflict with VLAN mapping configuration on the port.	During executing set operation for QinQ table, the transparent VLANs conflict with VLAN mapping configuration on the port.

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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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> Type. Time. 	The member of Type must be specified.
Type	Revertive member. Revertive type.	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">Type.Time.	N/A
Type	Revertive member. Revertive type.	N/A	Enumeration: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">Type.Time.	N/A
Type	Revertive member. Revertive type.	N/A	Enumeration: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
TunnelINHLFEIDs	List of Tunnel NHLFE IDs	N/A	Members include: <ul style="list-style-type: none"> TunnelINHLFEID 	N/A
TunnelINHLFEID	Tunnel NHLFE ID	N/A	Unsigned integer.	Repeat supported.
IsMainPW	Is main PW or not.	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—None 1—Hub 2—Spoke 	N/A
SplitHorizon	Split horizon forwarding for the PW	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled(default). false—Disabled. 	N/A.
ControlWord	Whether using control word.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled false—Disabled. 	N/A
PWType	PW type.	N/A	Enumeration: <ul style="list-style-type: none"> 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_VCC 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: <ul style="list-style-type: none"> • 1—UP • 2—Down • 3—Blocked • 4—Defect • 5—Idle • 6—Duplicate 	N/A
InputStatistics	Input statistics	N/A	Members include: <ul style="list-style-type: none"> • Octets • Packets • Errors • Discards 	N/A
OutputStatistics	Output statistics	N/A	Members include: <ul style="list-style-type: none"> • 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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VPLS

VPLS/SIGNALINGLDP

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.	Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.
Parameters don't exist.	The configturation of delete has a default value and doesn't allow delete.

VPLS/RMTMACS

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situa tion.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
When set is operated, the set value does not meet the requirements of the module.	When set is operated, the set value does not meet the requirements of the module.

VPLS/LDPPEERS

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
When set is operated, the set value does not meet the requirements of the module.	When set is operated, the set value does not meet the requirements of the module.
Executed the set commamd, the variable exists but can not be modified.	Executed the set commamd, the variable exists but can not be modified.

Executes the set command, and the variable exists, but the assignment fails because the condition is not satisfied in the current environment.	Executes the set command, and the variable exists, but the assignment fails because the condition is not satisfied in the current environment.
Parameters don't exist.	The configuration of delete has a default value and doesn't allow delete.

VPLS/LDPBACKUPPEERS

Message	Explanation
Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.	Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.
Access a no-access node, communication failure.	1. Access a no-access node. 2. Send/receive data timeout. 3. A failure to initiate a connect to a server.
When set is operated, the set value does not meet the requirements of the module.	When set is operated, the set value does not meet the requirements of the module.
Executes the set command, and the variable exists, but the assignment fails because the condition is not satisfied in the current environment.	1. The create value attribute column does not allow modification. 2. The merge value attributed column is different from the lower hair attribute column.
Parameters don't exist.	The configuration of delete has a default value and doesn't allow delete.

VPLS/SIGNALINGSTATICS

Message	Explanation
Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.	Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.
Access a no-access node, communication failure.	1. Access a no-access node. 2. Send/receive data timeout. 3. A failure to initiate a connect to a server.
Executes the set command, and the variable exists, but the assignment fails because the condition is not satisfied in the current environment.	Executes the set command, and the variable exists, but the assignment fails because the condition is not satisfied in the current environment.
Parameters don't exist.	The configuration of delete has a default value and doesn't allow delete.

VPLS/STATICPEERS

Message	Explanation
Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.	Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.

Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
Executed the set commamd, the variable exists but can not be modified.	Executed the set commamd, the variable exists but can not be modified.
When set is operated, the set value does not meet the requirements of the module.	When set is operated, the set value does not meet the requirements of the module.
Parameters don't exist.	The configturation of delete has a default value and doesn't allow delete.
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.	Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.

VPLS/STATICBACKUPPEERS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
When set is operated, the set value does not meet the requirements of the module.	When set is operated, the set value does not meet the requirements of the module.
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.	Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.
Parameters don't exist.	The configturation of delete has a default value and doesn't allow delete.

VPLS/PWS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.

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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
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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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.
				You must create the connection first.
ConnectionName	Connection Name	N/A	String. <ul style="list-style-type: none"> Length: 1 to 20 characters. 	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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Main PW. false—Backup PW. 	N/A
ControlWord	Whether using control word.	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled false—Disabled. 	N/A
PWType	PW type.	N/A	Enumeration: <ul style="list-style-type: none"> 0—Unknown 1—FR_DLCL_MARTINI 	N/A

			<ul style="list-style-type: none"> • 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_VCC • 15—FR_PORT • 16—CEP • 17—TDM_SATOP_E1 • 18—TDM_SATOP_T1 • 19—TDM_SATOP_E3 • 20—TDM_SATOP_T3 • 21—TDM_CESOPSN_BASIS • 22—TDMoIP_AAL1_Mode • 23—TDM_CESOPSN_WITH_CAS • 24—TDMoIP_AAL2_Mode • 25—FR_DLCI 	
LinkID	Link ID of the PW	N/A	Unsigned integer.	N/A
			Enumeration:	
			<ul style="list-style-type: none"> • 1—UP • 2—Down • 3—Blocked • 4—Defect • 5—Idle • 6—Duplicate 	
State	State of the PW	N/A		N/A
			Members include:	
			<ul style="list-style-type: none"> • Octets • Packets • Errors • Discards 	N/A
InputStatistics	Input statistics	N/A		
			Members include:	
			<ul style="list-style-type: none"> • 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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VPWS

VPWS/XCGS

Message	Explanation
Invaield configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invaield configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
Parameters don't exist.	Parameters don't exist.

VPWS/CONNECTIONS

Message	Explanation
Invaield configuration messages.Generally speaking,the length of the message is not consistent with the actual situa tion.	Invaield configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
When set is operated, the set value does not meet the requirements of the module.	When set is operated, the set value does not meet the requirements of the module.
Parameters don't exist.	Parameters don't exist.

VPWS/LDPPEERS

Message	Explanation
Invaield configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invaield configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
When set is operated, the set value does not meet the requirements of the module.	When set is operated, the set value does not meet the requirements of the module.
Executed the set commamd, the variable exists but can not be modified.	Executed the set commamd, the variable exists but can not be modified.
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.	Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.

Parameters don't exist.	The configuration of delete has a default value and doesn't allow delete.
-------------------------	---------------------------------------------------------------------------

VPWS/LDPBACKUPPEERS

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
When set is operated, the set value does not meet the requirements of the module.	When set is operated, the set value does not meet the requirements of the module.
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.	1.The create value attribute column does not allow modification. 2.The merge value attributed column is different from the lower hair attribute column.
Parameters don't exist.	The configuration of delete has a default value and doesn't allow delete.

VPWS/STATICPEERS

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.	Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.
Executed the set commamd, the variable exists but can not be modified.	The xml tag does not support the custom item.
When set is operated, the set value does not meet the requirements of the module.	Illegal ip address.
Parameters don't exist.	The configuration of delete has a default value and doesn't allow delete.

VPWS/STATICBACKUPPERS

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.

consistent with the actual situation.	
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.	1.The create value attribute column does not allow modification. 2.The merge value attributed column is different from the lower hair attribute column. 3.The replace value attributed column is different from the lower hair attribute column.
When set is operated, the set value does not meet the requirements of the module.	When set is operated, the set value does not meet the requirements of the module.
Parameters don't exist.	The configturation of delete has a default value and doesn't allow delete.

VPWS/L3INTERFACES

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.	Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.
No operation permissions.	No RBAC permissions.
Executed the set commamd, the variable exists but can not be modified.	1.Interface does not support L3AC. 2.The interface does not exist or is a temporary interface.
Parameters don't exist.	The configturation of delete has a default value and doesn't allow delete.

VPWS/ACS

Message	Explanation
Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invaild configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.	Executes the set command,and the variable exists,but the assignment fails because the condition is not satisfied in the currnet environment.
Executed the set commamd, the variable exists but can not be modified.	1.Non-two-layer interface has no AC data. 2.The current interface is not a Ethernet interface and aggregate interface.
Parameters don't exist.	The default value of the delete operation cann't be set again.

No operation permissions.	No RBAC permissions.
---------------------------	----------------------

VPWS/PWS

Message	Explanation
Invaile configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invaile configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.

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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: <ul style="list-style-type: none">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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	VRRPAssolpAddress
Table type	Multi-instance table
Row name	AssolpAddr
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: <ul style="list-style-type: none"> 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.
LinkLocal	LinkLocal keyword.	N/A	Boolean: <ul style="list-style-type: none"> true. false. 	For the merge, create, and replace operations, you cannot configure the LinkLocal keyword when the VRRP virtual IP address is an IPv4

Column name	Column description	Column type	Data type and restrictions	Remarks
				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
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AddressType	Address type	Index	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>

```



```

    <Ipv4RecoverDelay></Ipv4RecoverDelay>
    <Ipv6RecoverDelay></Ipv6RecoverDelay>
  </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.
Ipv4Version	IPv4 VRRP version.	N/A	Enumeration: <ul style="list-style-type: none"> 2—VRRPv2. 3—VRRPv3. Default: VRRPv3.	N/A
Ipv4Recover	Delay time for the IPv4 VRRP group	N/A	Unsigned integer.	The unit is seconds.

Column name	Column description	Column type	Data type and restrictions	Remarks
erDelay	to transition from Initialize to Master or Backup state		Value range: 0 to 60 seconds. Default: 0.	The default value is 0, which means to recover immediately.
Ipv6RecoverDelay	Delay time for the IPv6 VRRP group to transition from Initialize to Master or Backup state	N/A	Unsigned integer. Value range: 0 to 60 seconds. Default: 0.	The unit is seconds. The default value is 0, which means to recover immediately.

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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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—no authentication 1—Simple password 2—Authentication header. 	N/A
AuthTypeRun	Running authentication type	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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>
      <Ipv4RecoverDelay></Ipv4RecoverDelay>
      <Ipv6RecoverDelay></Ipv6RecoverDelay>
    </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.
Ipv4Version	IPv4 VRRP version.	N/A	Enumeration: <ul style="list-style-type: none"> 2—VRRPv2. 3—VRRPv3. 	N/A
Ipv4RecoverDelay	Delay time for the IPv4 VRRP group to transition from Initialize to Master or Backup state	N/A	Unsigned integer. Value range: 0 to 60 seconds. Default: 0.	The unit is seconds. The default value is 0, which means to recover immediately.
Ipv6RecoverDelay	Delay time for the IPv6 VRRP group to transition from Initialize to Master or Backup state	N/A	Unsigned integer. Value range: 0 to 60 seconds. Default: 0.	The unit is seconds. The default value is 0, which means to recover immediately.

VRRP/VRRP Specification

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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VRRP

VRRP/VRRPOper

Message	Explanation
Maximum number of VRRP groups on the device already reached. 设备上存在的备份组数目已经达到上限。	Maximum number of VRRP groups on the device already reached.For more information,please reference to product manuals.
Maximum number of VRRP groups on the interface already reached. 接口上存在的备份组数目已经达到上限。	Maximum number of VRRP groups on the interface already reached.For more information,please reference to product manuals.
Invalid IP address. 非法的IPv4地址。	Only class A,class B,class C addresses are available.
Invalid IPv6 address. 非法的IPv6地址。	The VRRP virtual IPv6 address cannot be all 0s or loopback address.,.
Configuration items don't meet the requirements. 不符合配置要求。	<ol style="list-style-type: none">1. Cannot set new configurations without non-index column.2. Preempt mode and preempt delay have to be configured together.
VRID of the VRRP group is out of range. 备份组号达到产品定制的最大值。	VRID of the VRRP group is out of range.For more information,please reference to product manuals.
Authkey can't include backslashes (\). 认证字中不能有转义字符。	Please change your authkey,and do not include '\'.
VRRP4 is not configured. VRRP4未配置。	VRRP4 service has not been started.
VRRP6 is not configured. VRRP6未配置。	VRRP6 service has not been started.
This configuration is not supported on interfaces of this type. 该类型接口不支持此配置。	Only routed ports are available.

VRRP/VRRPAssolpAddr

Message	Explanation
The virtual address has already been assigned to the VRRP group. 虚拟地址已经在备份组中存在。	Cannot assign same virtual address for different VRRP groups.
Maximum number of virtual addresses assigned to the VRRP group already reached. 备份组中配置的虚拟地址个数已经达到上限。	The maximum number of virtual address of VRRP groups is 16.
Please delete all other virtual IPv6 addresses	Please delete all other virtual IPv6 addresses before deleting the

before deleting the link-local address. 在删除链路本地地址前请先删除该备份组的其他所有虚拟地址。	link-local address.
The first assigned virtual IPv6 address must be a link-local address. 第一个指定的虚拟IPv6地址必须是链路本地地址。	Please assign link-local IPv6 address first.
Specify the link-local option when configuring a virtual link-local address. 当配置虚拟链路本地地址时须指定link-local关键字。	Specify the link-local option when configuring a virtual link-local address.
The link-local option can't be specified. 不需要link-local关键字。	Do not specify the link-local option when configuring a non-link-local address.
VRID of the VRRP group is out of range. 备份组号达到产品定制的最大值。	VRID of the VRRP group is out of range. For more information, please reference to product manuals.
Configuration items don't meet the requirements. 不符合配置要求。	The linklocal column must be specified when configure IPv6 addresses.

VRRP/VRRPTrack

Message	Explanation
Maximum number of associated track entries already reached. 关联的Track项数目已经达到上限。	The maximum number of track entries of VRRP groups is 8.
VRID of the VRRP group is out of range. 备份组号达到产品定制的最大值。	VRID of the VRRP group is out of range. For more information, please reference to product manuals.
This configuration is not supported on interfaces of this type. 该类型接口不支持此配置。	Only route ports are available.

VRRP/VRRPInterface

Message	Explanation
This configuration is not supported on interfaces of this type. 该类型接口不支持此配置。	Only route ports are available.
Configuration items don't meet the requirements. 不符合配置要求。	<ol style="list-style-type: none"> Cannot configure second dot1q without dot1q. Cannot remove dot1q without second dot1q.

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VXLAN

VXLAN/ClearVxlanTunnelStatistics

This table clears traffic statistics for all VXLAN tunnels of a VSI.

XML structure

```
<VXLAN>
  <ClearVxlanTunnelStatistics>
    <VxlanTunnelStatistics>
      <VsiName></VsiName>
      <Clear></Clear>
    </VxlanTunnelStatistics>
  </ClearVxlanTunnelStatistics>
</VXLAN>
```

Table description

Item	Description
Feature name	VXLAN
Table name	ClearVxlanTunnelStatistics
Table type	Multi-instance table
Row name	VxlanTunnelStatistics
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
VsiName	VSI name	Index	String. Length: 1 to 31 characters.
Clear	Clear traffic statistics for all VXLAN tunnels of the VSI	N/A	This column must be empty.

VXLAN/ClearAllVxlanTunnelStatistics

This table clears traffic statistics for all VXLAN tunnels.

XML structure

```
<VXLAN>
```



```

<ClearAllVxlanTunnelStatistics>
  <Clear></Clear>
</ClearAllVxlanTunnelStatistics>
</VXLAN>

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions
Clear	Clear traffic statistics for all VXLAN tunnels	N/A	This column must be empty.

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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: <ul style="list-style-type: none">true—Enabled(default).false—Disabled.	N/A
RmtArpLearn	Remote ARP learning function	N/A	Boolean: <ul style="list-style-type: none">true—Enabled(default).false—Disabled.	You must enable L2VPN feature globally at first.
RmtNdLearn	Remote ND learning function	N/A	Boolean: <ul style="list-style-type: none">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		<ul style="list-style-type: none"> true—Enabled. false—Disabled(default). 	
ReservedVxlanID	Reserved VXLAN ID	N/A	Unsigned integer, Value range: 0-16777215.	<p>You must enable L2VPN feature globally at first.</p> <p>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.</p>

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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled(default). 	If you assign VXLAN tunnels to a VXLAN one by one, you cannot remove all the VXLAN tunnels by using this column.

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>

```



```

    <RelayAgent></RelayAgent>
  </Tunnel>
</Tunnels>
</VXLAN>

```

Table description

Item	Description
Feature name	VXLAN
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
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: <ul style="list-style-type: none"> true—Enabled. false—Disabled(default). 	Can't be modified after creation.
RelayAgent	Relay agent	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disabled(default). 1—PPPoE. 2—IPoE. 3—The combination of the two type above. 	Support for this column depends on the device model.

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 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.

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>
      <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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">true—Enabled.	N/A

			<ul style="list-style-type: none"> false—Disabled(default) 	
bErtAuto	Export route target	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled(default) 	N/A
bMacAdvertise	MAC advertise	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled(default) false—Disabled 	N/A
bArpMacLearn	ARP MAC learning	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled(default) false—Disabled 	N/A
NdMacLearn	ND MAC learning	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled(default) false—Disabled 	N/A
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: <ul style="list-style-type: none"> 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

Item	Description
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.	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

Item	Description
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.
VNI	Layer 3 VNI for the tenant	N/A	Unsigned integer. Length: 32 bits.	No modification.

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XML structure.....	9
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Columns.....	10

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>
    <SupportRelayAgent></SupportRelayAgent>
  </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: <ul style="list-style-type: none">true—Enabled.false—Disabled.	N/A
RmtArpLearn	Remote ARP learning function	N/A	Boolean: <ul style="list-style-type: none">true—Enabled.false—Disabled.	N/A
RmtNdLearn	Remote ND learning function	N/A	Boolean: <ul style="list-style-type: none">true—Enabled.false—Disabled.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
LocMacNtf	Local MAC address report function	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
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.
SupportRelayAgent	Relay agent supporting function	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disabled. 1—PPPoE. 2—IPoE. 3—The combination of the two type above. 	N/A

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: <ul style="list-style-type: none">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: <ul style="list-style-type: none">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>
    <RelayAgent></RelayAgent>
    <InPkts></InPkts>
    <InOctets></InOctets>
    <OutPkts></OutPkts>
    <OutOctets></OutOctets>
    <SystemTime></SystemTime>
  </Tunnel>
</Tunnels>
</VXLAN>

```

Table description

Item	Description
Feature name	VXLAN
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
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: <ul style="list-style-type: none"> 0—auto. 1—manual. 2—auto and manual. 	N/A
FloodingProxy	Flooding proxy	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
State	Tunnel state	N/A	Enumeration: <ul style="list-style-type: none"> 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.
RelayAgent	Relay agent	N/A	Enumeration: <ul style="list-style-type: none"> 0—Disabled. 	N/A

			<ul style="list-style-type: none"> 1—PPPoE. 2—IPoE. 3—The combination of the two type above. 	
InPkts	Number of incoming packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
InOctets	Number of incoming bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
OutPkts	Number of outgoing packets	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
OutOctets	Number of outgoing bytes	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	N/A
SystemTime	Time that has elapsed since the device started up when the tunnel statistics are updated	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$, in milliseconds.	If the tunnel statistics feature is disabled, the value for this column is 0.

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

Item	Description
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: <ul style="list-style-type: none"> • 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

Item	Description
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
bErtAuto	Export route target	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
bMacAdvertise	MAC advertise	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
bArpMacLearn	ARP MAC learning	N/A	Boolean: <ul style="list-style-type: none"> true—Enabled. false—Disabled. 	N/A
NdMacLearn	ND MAC learning	N/A	Boolean: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">1—Import2—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

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VXLAN

VXLAN/BASE

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
Parameters don't exist.	Parameters don't exist.

VXLAN/VXLAN

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situa tion.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
Executed the set commamd, the variable exists but can not be modified.	Executed the set commamd, the variable exists but can not be modified.
When set is operated, the set value does not meet the requirements of the module.	When set is operated, the set value does not meet the requirements of the module.
Parameters don't exist.	Multicast addresses don't exist.

VXLAN/TUNNEL

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
No operation permissions.	Tnld is not satisfied with the RBAC interface policy.
When set is operated, the set value does not meet the requirements of the module.	1.The replay-agent pppoe command is not supported. 2.The replay-agent ipoe command is not supported.

VXLAN/RMTAC

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.。	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.
When set is operated, the set value does not meet the requirements of the module.	Illegal MAC address.
Executed the set commamd, the variable exists but can not be modified.	Executed the set commamd, the variable exists but can not be modified.
No operation permissions.	Tnld is not satisfied with the RBAC interface policy.

VXLAN/ALLOC CONFIG

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
When set is operated, the set value does not meet the requirements of the module.	When set is operated, the set value does not meet the requirements of the module.

VXLAN/ALLOC DATA

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.

VXLAN/ESS

Message	Explanation
Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.	Invailld configuration messages.Generally speaking,the length of the message is not consistent with the actual situation.
Access a no-access node,communication failure.	1.Access a no-access node. 2.Send/receive data timeout. 3.A failure to initiate a connect to a server.

No operation permissions.	No RBAC permissions.
Executed the set command, the variable exists but can not be modified.	Executed the set command, the variable exists but can not be modified.
Parameters don't exist.	1.When the operation is deleted,the Esi is not configured. 2.The default value of the delete operation can't be set again.

VXLAN/EVPN/VXLANENCAPS

Message	Explanation
Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.	Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.
Access a no-access node, communication failure.	1. Access a no-access node. 2. Send/receive data timeout. 3. A failure to initiate a connect to a server.
When set is operated, the set value does not meet the requirements of the module.	When set is operated, the set value does not meet the requirements of the module.
Executed the set command, the variable exists but can not be modified.	Executed the set command, the variable exists but can not be modified.
Parameters don't exist.	The default value of the delete operation can't be set again.

VXLAN/EVPN/VXLANRTS

Message	Explanation
Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.	Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.
Access a no-access node, communication failure.	1. Access a no-access node. 2. Send/receive data timeout. 3. A failure to initiate a connect to a server.
When set is operated, the set value does not meet the requirements of the module.	When set is operated, the set value does not meet the requirements of the module.

VXLAN/VRFS

Message	Explanation
Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.	Invalid configuration messages. Generally speaking, the length of the message is not consistent with the actual situation.
Executed the set command, the variable exists but can not be modified.	Executed the set command, the variable exists but can not be modified.
No operation permissions.	No RBAC permissions.
Access a no-access node, communication failure.	1. Access a no-access node.

	2.Send/receive data timeout.
--	------------------------------

	3.A failure to initiate a connect to a server.
--	------------------------------------------------

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WebAuth

WebAuth/WebServers

This table contains information about web-auth server.

XML structure

```
<WebAuth>
  <WebServers>
    <WebServer>
      <ServerName></ServerName>
      <IPAddress></IPAddress>
      <Port></Port>
      <Url></Url>
    </WebServer>
  </WebServers>
</WebAuth>
```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Name of the web-auth server	Index	String. <ul style="list-style-type: none">Length: 1 to 32 characters.	N/A
IPAddress	IPv4 address of the web-auth server	N/A	String, dotted decimal notation. Default is not configured.	The column supports IPv4-only format.
Port	URL of the web-auth server	N/A	Unsigned integer. <ul style="list-style-type: none">Value range:	The column must be defined when the IPAddress exists.

Column name	Column description	Column type	Data type and restrictions	Remarks
			1-65535. Default is not configured.	
Url	Name of the web-auth server	N/A	String. <ul style="list-style-type: none"> Length: 1 to 256 characters. Default is not configured.	N/A

WebAuth/UrlParams

This table contains information about Url parameters.

XML structure

```

<WebAuth>
  <UrlParams>
    <UrlParam>
      <ServerName></ServerName>
      <ParamName></ParamName>
      <ParamType></ParamType>
      <SelfDefValue></SelfDefValue>
    </UrlParam>
  </UrlParams>
</WebAuth>

```

Table description

Item	Description
Feature name	WebAuth
Table name	UrlParams
Table type	Multi-instance table
Row name	UrlParam
Restrictions	Row creation is allowed only when the web-server exists.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Name of the web-auth server	Index	String. case-insensitive. <ul style="list-style-type: none">Length: 1 to 32 characters.	N/A
ParamName	Parameter name of the URL	Index	String. <ul style="list-style-type: none">Length: 1 to 32 characters.	The column configures the parameter name carried in the redirect URL.
ParamType	Parameter type	N/A	Enumeration: <ul style="list-style-type: none">0—source-address1—source-mac2—original-url3—selfdefine	The column must be defined.
SelfDefValue	Self-defined parameter	N/A	String. Length: 1 to 256 Characters. Default is not configured.	The column takes effect when ParamType is selfdefine.

WebAuth/Interfaces

This table contains interface configuration of web-auth.

XML structure

```
<WebAuth>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <AuthEnable></AuthEnable>
      <ApplyServer></ApplyServer>
      <ApplyDomain></ApplyDomain>
      <MaxUser></MaxUser>
      <AuthFailVlan></AuthFailVlan>
      <OfflineDetectInterval></OfflineDetectInterval>
    </Interface>
  </Interfaces>
</WebAuth>
```


Table description

Item	Description
Feature name	WebAuth
Table name	Interfaces
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 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> .
AuthEnable	Enable the Web-Auth function	N/A	Boolean: <ul style="list-style-type: none">• true—Yes.• false—No(Default).	Can not enable with port security function at same time.
ApplyServer	Apply authentication server	N/A	String. case-insensitive. <ul style="list-style-type: none">• Length: 1 to 32 characters. Default is not configured.	N/A
ApplyDomain	Apply IPv4 authentication domain	N/A	String, <ul style="list-style-type: none">• Length: 1 to 24. Default is not configured.	N/A
MaxUser	Maximum number of users on the interface	N/A	Unsigned integer.	The value range depends on the device model.
AuthFailVlan	VLAN for users failed in authentication	N/A	Unsigned integer. <ul style="list-style-type: none">• Value range: 1 to 4094. Default Value is not configured.	N/A
OfflineDetectInterval	Detecting offline user timer	N/A	Unsigned integer <ul style="list-style-type: none">• Value range: 60 to 65535 seconds. Default is not configured.	N/A

WebAuth/FreeIPs

This table contains free ip configuration of web-auth.

XML structure

```
<WebAuth>
  <FreeIPs>
    <FreeIP>
      <IPv4Address></IPv4Address>
      <IPv4Mask></IPv4Mask>
    </FreeIP>
  </FreeIPs>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	FreeIPs
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	Remarks
IPv4Address	IP address used in EAD assistance feature	Index	String, dotted decimal notation.	The column supports IPv4-only format.
IPv4Mask	IP address mask	Index	Ipv4Mask.	N/A

WebAuth/ProxyPorts

This table contains proxy port configuration of web-auth.

XML structure

```
<WebAuth>
  <ProxyPorts>
    <ProxyPort>
      <PortNumber></PortNumber>
    </ProxyPort>
  </ProxyPorts>
</WebAuth>
```



```

        </ProxyPort>
    </ProxyPorts>
</WebAuth>

```

Table description

Item	Description
Feature name	WebAuth
Table name	ProxyPorts
Table type	Multi-instance table
Row name	ProxyPort
Restrictions	No.
Support for row creation and deletion	Yes

Columns

Column name	Column description	Column type	Data type and restrictions
PortNumber	Port number of TCP	Index	Unsigned integer. <ul style="list-style-type: none"> Value range: 1-65535. Default is not configured.

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WebAuth

WebAuth/WebServers

This table contains information about web-auth server.

XML structure

```
<WebAuth>
  <WebServers>
    <WebServer>
      <ServerName></ServerName>
      <IPAddress></IPAddress>
      <Port></Port>
      <Url></Url>
    </WebServer>
  </WebServers>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	WebServers
Table type	Multi-instance table
Row name	WebServer
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Name of the web-auth server	Index	String. <ul style="list-style-type: none">Length: 1 to 32 characters.	N/A
IPAddress	IPv4 address of the web-auth server	N/A	String, dotted decimal notation. Default is not configured.	The column supports IPv4-only format.
Port	Port number of the web-auth server	N/A	Unsigned integer. <ul style="list-style-type: none">Value range: 1-65535. Default is not configured.	The column must be defined when the IPAddress exists.

Column name	Column description	Column type	Data type and restrictions	Remarks
Url	URL of the web-auth server	N/A	String. <ul style="list-style-type: none"> Length: 1 to 256 characters. Default is not configured.	N/A

WebAuth/UrlParams

This table contains information about Url parameters.

XML structure

```

<WebAuth>
  <UrlParams>
    <UrlParam>
      <ServerName></ServerName>
      <ParamName></ParamName>
      <ParamType></ParamType>
      <SelfDefValue></SelfDefValue>
    </UrlParam>
  </UrlParams>
</WebAuth>

```

Table description

Item	Description
Feature name	WebAuth
Table name	UrlParams
Table type	Multi-instance table
Row name	UrlParam
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
ServerName	Name of the web-auth server	Index	String, case-insensitive. <ul style="list-style-type: none"> Length: 1 to 32 characters. 	N/A
ParamName	Parameter name of the URL	Index	String. <ul style="list-style-type: none"> Length: 1 to 32 characters. 	The column configures the parameter name carried in the redirect URL.

Column name	Column description	Column type	Data type and restrictions	Remarks
ParamType	Parameter type	N/A	Enumeration: <ul style="list-style-type: none"> 0—source-address 1—source-mac 2—original-url 3—selfdefine 	The column must be defined.
SelfDefValue	Self-defined parameter	N/A	String. Length: 1 to 256 Characters. Default is not configured.	The column takes effect when ParamType is selfdefine.

WebAuth/Interfaces

This table contains interface information of web-auth.

XML structure

```

<WebAuth>
  <Interfaces>
    <Interface>
      <IfIndex></IfIndex>
      <AuthEnable></AuthEnable>
      <ApplyServer></ApplyServer>
      <ApplyDomain></ApplyDomain>
      <MaxUser></MaxUser>
      <AuthFailVlan></AuthFailVlan>
      <OfflineDetectInterval></OfflineDetectInterval>
      <OnlineUserNum></OnlineUserNum>
    </Interface>
  </Interfaces>
</WebAuth>

```

Table description

Item	Description
Feature name	WebAuth
Table name	Interfaces
Table type	Multi-instance table
Row name	Interface
Restrictions	No.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Ifindex	Interface index	Index	Unsigned integer.	Some versions supports 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.
AuthEnable	Enable the Web-Auth function	N/A	Boolean: <ul style="list-style-type: none">true—Yes.false—No	Can not enable with port security function at same time.
ApplyServer	Apply authentication server	N/A	String. case-insensitive. <ul style="list-style-type: none">Length: 1 to 32 characters.	N/A
ApplyDomain	Apply IPv4 authentication domain	N/A	String, case-insensitive. <ul style="list-style-type: none">Length: 1 to 24.	N/A
MaxUser	Maximum number of users on the interface	N/A	Unsigned integer.	N/A
AuthFailVlan	VLAN for users failed in authentication	N/A	Unsigned integer. <ul style="list-style-type: none">Value range: 1 to 4094..	N/A
OfflineDetectInterval	Detecting offline user timer	N/A	Unsigned integer <ul style="list-style-type: none">Value range: 60 to 65535 seconds.	N/A
OnlineUserNum	Current online user number	N/A	Unsigned integer.	N/A

WebAuth/FreeIPs

This table contains free ip information of web-auth.

XML structure

```
<WebAuth>
  <FreeIPs>
    <FreeIP>
      <IPv4Address></IPv4Address>
      <IPv4Mask></IPv4Mask>
    </FreeIP>
  </FreeIPs>
```


</WebAuth>

Table description

Item	Description
Feature name	WebAuth
Table name	FreeIPs
Table type	Multi-instance table
Row name	FreeIP
Restrictions	No.

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IPv4Address	IP address used in EAD assistance feature	Index	String, dotted decimal notation.	The column supports IPv4-only format.
IPv4Mask	IP address mask	Index	Ipv4Mask.	N/A

WebAuth/ProxyPorts

This table contains proxy port information of web-auth.

XML structure

```
<WebAuth>
  <ProxyPorts>
    <ProxyPort>
      <PortNumber></PortNumber>
    </ProxyPort>
  </ProxyPorts>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	ProxyPorts
Table type	Multi-instance table
Row name	ProxyPort
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
PortNumber	Port number of TCP	Index	Unsigned integer. <ul style="list-style-type: none">Value range: 1-65535.

WebAuth/OnlineUsers

This table contains online user information of web-auth.

XML structure

```
<WebAuth>
  <OnlineUsers>
    <OnlineUser>
      <UserMac></UserMac>
      <AccessInterface></AccessInterface>
      <UserName></UserName>
      <InitVlan></InitVlan>
      <AuthVlan></AuthVlan>
      <AuthAcl></AuthAcl>
      <AuthUserProfile></AuthUserProfile>
    </OnlineUser>
  </OnlineUsers>
</WebAuth>
```

Table description

Item	Description
Feature name	WebAuth
Table name	OnlineUsers
Table type	Multi-instance table
Row name	OnlineUser
Restrictions	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AccessInterface	The access interface of user	Index	Unsigned integer.	Some versions supports 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.
UserMac	Mac of the online user	Index	MAC address in the HH-HH-HH-HH-HH-HH format	N/A
UserName	User name	N/A	String.	N/A
InitVlan	Init Vlan of user	N/A	Unsigned integer.	N/A
AuthVlan	Authorization Vlan	N/A	Unsigned integer.	N/A
AuthAcl	Authorization ACL	N/A	Unsigned integer.	N/A
AuthUserProfile	Authorization user profile	N/A	String.	N/A

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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. The default value is 1.

Column name	Column description	Column type	Data type and restrictions
HideSsid	Hiding status of SSID		Boolean: <ul style="list-style-type: none"> 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 selected.		Boolean. True or 1 : selected. False or 0 : no selected. The default value is false.	N/A
RsnSelected	Is Security IE RSN selected.		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>

```



```

    </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

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. 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 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.

Column name	Column description	Column type	Data type and restrictions	Remarks
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. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none">false—disabledtrue—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. <ul style="list-style-type: none">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. <ul style="list-style-type: none"> false—disabled(default). true—enabled. 	N/A
Mode	Load balancing mode	N/A	Enumeration: <ul style="list-style-type: none"> 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 12. 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: <ul style="list-style-type: none"> 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.
Radiold	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
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.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			False or 0 : no selected. 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 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 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
ClientOffUpdateGtk	Whether to update GTK		Boolean. True or 1 : update.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
	when client goes offline.		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/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
RadioId	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	Index	MAC address	N/A

	station			
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 backgroud frames		Unsigned integer64	N/A
TxBkBytes	Transmitted backgroud 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 backgroud frames		Unsigned integer64	N/A
RxBkBytes	Received backgroud bytes		Unsigned integer64	N/A
RxBeframes	Received besteffort frames		Unsigned integer64	N/A
RxBefBytes	Received besteffort		Unsigned integer64	N/A

	bytes			
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 backgroud frames		Unsigned integer64	N/A
DropBkBytes	Dropped backgroud bytes		Unsigned integer64	N/A
DropBeFrames	Dropped besteffort frames		Unsigned integer64	N/A
DropBeBytes	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>

```



```

</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. 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
RadioId	Radio identifier.	Index	Unsigned char. Value range: 1 to 4	N/A
AccessCategory	Access category.	Index	Enumeration. 0 : be. 1 : bk.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			2 : vi 3 : vo	
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

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	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 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 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 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.
Dot1xReauth	Enable	N/A	Boolean:	Default status is disabled

Column name	Column description	Column type	Data type and restrictions	Remarks
AuthenticationEnabled	re-authentication feature of dot1x		True or 1 : enabled. False or 0 : 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
KeepAliveTime	Keeping alive time of staion	N/A	Unsigned integer. Value range: 3s to 1800s.	N/A
BandNaviStatus	Band navigation status	N/A	Enumeration. <ul style="list-style-type: none"> 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. <ul style="list-style-type: none">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. <ul style="list-style-type: none">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. <ul style="list-style-type: none">false—disabled.true—enabled.	N/A
Mode	Load balancing mode	N/A	Enumeration. <ul style="list-style-type: none">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).

Column name	Column description	Column type	Data type and restrictions	Remarks
Session Gap	Session gap threshold	N/A	Unsigned integer. Value range:1 to 12.	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
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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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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Columns	20
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XML structure	21
Table description	22
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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
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WLOC/RadioConf	29
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Table description	29
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WLOC/RadioConfOfAgroup	30
XML structure	30
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WLOC/ModuleConf	31
XML structure	31
Table description	31
Columns	32
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XML structure	32
Table description	33
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WLOC/BLEModuleConf	33
XML structure	33
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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: <ul style="list-style-type: none">1—enable	N/A

	AeroScout protocol		<ul style="list-style-type: none"> 2—disable 	
VersionID	Specify the AeroScout version ID	N/A	Enumeration: <ul style="list-style-type: none"> 2—V2 3—V3 	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—absolute 2—relative 	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—enable 2—disable 	N/A
UnassoMeasStatus	Unassociated Measurement report to the server	N/A	Enumeration: <ul style="list-style-type: none"> 1—enable 2—disable 	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: <ul style="list-style-type: none"> 1—local 2—central 	N/A
ReportFormat	Frame format	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">1—enable2—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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—enable 2—disable 	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—enable 2—disable 	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—enable 2—disable 	N/A
VersionID	Specify the AeroScout version ID	N/A	Enumeration: <ul style="list-style-type: none"> 2—V2 3—V3 	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—local 2—central 	N/A
TimeStamp	Configure the timestamp field in MU reports	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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
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: <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 1—enable 2—disable 	N/A
MuReprotStatus	Specify the status of report MU information	N/A	Enumeration <ul style="list-style-type: none"> 1—enable 2—disable 	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: <ul style="list-style-type: none"> 1—local 2—central 	N/A
ReportFormat	Frame format	N/A	Enumeration: <ul style="list-style-type: none"> 1—general 	N/A

			<ul style="list-style-type: none"> • 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.	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, 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: <ul style="list-style-type: none"> • 2—V2(default) • 3—V3 	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 1—absolute • 2—relative(default) 	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—enable 2—disable(default) 	N/A

MuReprotStatus	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
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 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—enable 2—disable(default) 	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—enable 2—disable 	N/A
ModeMu	Locate all 802.11 clients	N/A	Enumeration: <ul style="list-style-type: none"> 2—mu 	N/A
ModeTag	Locate AeroScout clients	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">• 1—enable• 2—disable	N/A
Type	Specify the Type of module	N/A	Enumeration: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">1—enable2—disable(default)	N/A
Type	Specify the Type of module	N/A	Enumeration: <ul style="list-style-type: none">0—NotConfig(default)1—BLE2—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: <ul style="list-style-type: none">1—enable2—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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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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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: <ul style="list-style-type: none">0—inherit1—enable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—disable 	
VersionID	Specify the AeroScout version ID	N/A	Enumeration: <ul style="list-style-type: none"> 0—inherit 2—V2 3—V3 	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—inherit 1—absolute 2—relative 	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—inherit 1—local 2—central 	N/A
ReportFormat	Frame format	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—inherit 1—enable 2—disable 	N/A
UnassoMeasStatus	Unassociated measurement report to the server	N/A	Enumeration: <ul style="list-style-type: none"> 0—inherit 1—enable 2—disable 	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: <ul style="list-style-type: none"> 0—inherit 1—local 2—central 	N/A
ReportFormat	Frame format	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—inherit 1—enable 2—disable 	N/A
MuReportStatus	Specify the status of report MU information	N/A	Enumeration: <ul style="list-style-type: none"> 0—inherit 1—enable 2—disable 	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: <ul style="list-style-type: none"> 0—inherit 1—local 2—central 	N/A
ReportFormat	Frame format	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—inherit 1—enable 2—disable 	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—inherit 1—enable 2—disable 	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—inherit 1—enable 2—disable 	N/A
VersionID	Specify the AeroScout version ID	N/A	Enumeration: <ul style="list-style-type: none"> 0—inherit 2—V2 3—V3 	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—inherit 1—absolute 2—relative 	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—inherit 1—enable 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—disable 	
RssiThreshol d	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
RealTimeRep ortStatus	Specify the status of Real-time wireless locating	N/A	Enumeration: <ul style="list-style-type: none"> 0—inherit 1—enable 2—disable 	N/A
RealTimeRep ortPrefix	Specify the prefix of manufacturers	N/A	String. Hexadecimal Length: 8 to 18(even number)	N/A
RealTimeRep ortInterval	Specify the interval for sending client list report	N/A	Unsigned integer. Value range: 0 to 30	N/A
RealTimeRep ortEngineAdd ress	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.
RealTimeRep ortEnginePort	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: <ul style="list-style-type: none"> 0—inherit 1—local 2—central 	N/A
ReportFormat	Frame format	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">0—inherit1—enable2—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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—inherit 1—enable 2—disable 	N/A
UnassoMeasStatus	Unassociated measurement report to the server	N/A	Enumeration: <ul style="list-style-type: none"> 0—inherit 1—enable 2—disable 	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: <ul style="list-style-type: none"> 0—inherit 1—local 2—central 	N/A
ReportFormat	Frame format	N/A	Enumeration: <ul style="list-style-type: none"> 0—inherit 1—general 2—lightweight 	N/A
LocalCalculate	Participate in local calculating	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—inherit 1—enable 2—disable 	N/A
MuReportStatus	Specify the status of report MU information	N/A	Enumeration: <ul style="list-style-type: none"> 0—inherit 1—enable 2—disable 	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: <ul style="list-style-type: none"> 0—inherit 1—local 2—central 	N/A
ReportFormat	Frame format	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">0—inherit1—enable2—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: <ul style="list-style-type: none">0—inherit1—enable2—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: <ul style="list-style-type: none">0—inherit1—enable2—disable	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: <ul style="list-style-type: none">0—inherit1—enable2—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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—inherit 1—enable 2—disable 	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—enable 2—disable 	N/A
VersionID	Specify the AeroScout version ID	N/A	Enumeration: <ul style="list-style-type: none"> 2—V2 3—V3 	N/A
EngineDetectionMode	Specify the AeroScout engine address mode	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—absolute 2—relative 	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—local 2—central 	N/A
ReportFormat	Frame format	N/A	Enumeration: <ul style="list-style-type: none"> 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		<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—enable 2—disable 	N/A
UnassoMeasurementStatus	Unassociated measurement report to the server	N/A	Enumeration: <ul style="list-style-type: none"> 1—enable 2—disable 	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: <ul style="list-style-type: none"> 1—local 2—central 	N/A
ReportFormat	Frame format	N/A	Enumeration: <ul style="list-style-type: none"> 1—general 2—lightweight 	N/A
LocalCalculate	Participate in local calculating	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—enable 2—disable 	N/A
MuReportStatus	Specify the status of report MU information	N/A	Enumeration: <ul style="list-style-type: none"> 1—enable 2—disable 	N/A
ReportMode	Specify the module of report to the server	N/A	Enumeration: <ul style="list-style-type: none"> 1—local 2—central 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ReportFormat	Frame format	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—enable 2—disable 	N/A
RateLimitStatus	Limit the rate for sending locating packets	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—inherit 1—enable 2—disable 	N/A
KeepAliveStatus	Configure wireless location keepalive	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">0—inherit1—enable2—disable	N/A
ModeMu	Locate all 802.11 clients	N/A	Enumeration: <ul style="list-style-type: none">0—inherit2—mu	N/A
ModeTag	Locate AeroScout clients	N/A	Enumeration: <ul style="list-style-type: none">0—inherit1—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: <ul style="list-style-type: none">1—enable2—disable	N/A
ModeTag	Locate AeroScout clients	N/A	Enumeration: <ul style="list-style-type: none">0—disable1—enable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
ModeMu	Locate all 802.11 clients	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 0—inherited 1—enable 	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
			<ul style="list-style-type: none"> 2—disable 	
Type	Specify a module type	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 1—enable 2—disable 	N/A
Type	Specify a module type	N/A	Enumeration: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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: <ul style="list-style-type: none">1—enable2—disable	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Advertisemen tInterval	Specify the interval for sending advertisement reports	N/A	Unsigned integer. Value range: 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.	N/A
Advertisemen tMinorID	Specify the minor identifier for sending advertisement reports	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
Advertisemen tMeaPower	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>
      <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.