

Comware V7 ACL NETCONF XML API Data Reference

Contents

ACL.....	1
ACL/Base.....	1
XML structure.....	1
Table description.....	1
Columns.....	1
ACL/Capability.....	1
XML structure.....	1
Table description.....	2
Columns.....	2
ACL/Groups.....	3
XML structure.....	3
Table description.....	4
Columns.....	4
ACL/IPv4BasicRules.....	5
XML structure.....	5
Table description.....	5
Columns.....	6
ACL/IPv6BasicRules.....	7
XML structure.....	7
Table description.....	8
Columns.....	8
ACL/IPv4AdvanceRules.....	10
XML structure.....	10
Table description.....	11
Columns.....	12
ACL/IPv6AdvanceRules.....	16
XML structure.....	16
Table description.....	17
Columns.....	18
ACL/MACRules.....	23
XML structure.....	23
Table description.....	24
Columns.....	24
ACL/PfilterDefAction.....	26
XML structure.....	26
Table description.....	26
Columns.....	26
ACL/PfilterApply.....	26
XML structure.....	27
Table description.....	27
Columns.....	27
ACL/PfilterGroupRunInfo.....	28
XML structure.....	28
Table description.....	29
Columns.....	29
ACL/PfilterRuleRunInfo.....	31
XML structure.....	31
Table description.....	31
Columns.....	32

ACL/PfilterStatisticSum	33
XML structure	33
Table description	33
Columns	34
ACL/UserRules	34
XML structure	34
Table description	35
Columns	36
ACL/ZonePairPfilterApply	37
XML structure	38
Table description	38
Columns	38
ACL/ZonePairPfilterRules	39
XML structure	39
Table description	39
Columns	40

ACL

ACL/Base

This table contains ACL base table.

XML structure

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

Table description

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

Columns

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

ACL/Capability

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

XML structure

```
<ACL>
  <Capability>
```

```

<UserAclL2>
  <L2MaxOffset></L2MaxOffset>
  <L2MaxLen></L2MaxLen>
</UserAclL2>
<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: - 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: - L4MaxOffse. - L4MaxLen.

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

ACL/Groups

This table displays ACL information.

XML structure

```

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

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupType	ACL type	Index	Enumeration: • 1—IPv4. • 2—IPv6.	N/A
GroupID	ACL number	Index	Unsigned integer. Value range: 2000 to 5999.	The value range depends on the GroupType column. • 2000 to 5999 if GroupType is 1. ◦ IPv4 basic ACL: 2000 to 2999. ◦ IPv4 advanced ACL: 3000 to 3999. ◦ Ethernet frame header ACL: 4000 to 4999. ◦ User-defined ACL: 5000 to 5999. • 2000 to 3999 if GroupType is 2. ◦ IPv6 basic ACL: 2000 to 2999. ◦ IPv6 advanced ACL: 3000 to 3999.
MatchOrder	Order in which the rules are sorted	N/A	Enumeration: • 1—Config (default). In this order, rules are sorted in ascending order of rule ID. • 2—Auto. In this order, rules are sorted in depth-first order.	N/A
Step	ACL rule numbering step	N/A	Unsigned integer. Value range: 1 to 20. Default: 5.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
Name	ACL name	N/A	String, case-insensitive. Length: 1 to 63 characters.	By default, no name is specified for an 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/IPv4BasicRules

This table contains IPv4 basic ACL rule information.

XML structure

```

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

```

Table description

Item	Description
Feature name	ACL

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

Columns

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

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

ACL/IPv6BasicRules

This table contains IPv6 basic ACL rule information.

XML structure

```

<ACL>
  <IPv6BasicRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
    </Rule>
  </IPv6BasicRules>
</ACL>

```

```

<Action></Action>
<SrcAny></SrcAny>
<SrcIPv6>
  <SrcIPv6Addr></SrcIPv6Addr>
  <SrcIPv6Prefix></SrcIPv6Prefix>
</SrcIPv6>
<RoutingTypeAny></RoutingTypeAny>
<RoutingTypeValue></RoutingTypeValue>
<Fragment></Fragment>
<TimeRange></TimeRange>
<VRF></VRF>
<Counting></Counting>
<Logging></Logging>
<Comment></Comment>
<Status></Status>
<Count></Count>
<MatchIndex></MatchIndex>
</Rule>
</IPv6BasicRules>
</ACL>

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 2000 to 2999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: true—Matches any source IPv6 addresses (default). false—Matches the specified source IPv6 address.	N/A
SrcIPv6	Source IPv6 information.	Data structure	Members include: - SrcIPv6Address. - SrcIPv6Prefix.	The members must both be specified.
SrcIPv6Addr	Source IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
SrcIPv6Prefix	Length of the source IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: true—Matches any types of routing header. false—Matches the specified type of routing header (default).	N/A
RoutingTypeValue	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: true—Matches only non-first fragments. false—Matches both fragments and non-fragments (default).	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
VRF	VRF.	N/A	String, case-sensitive. Length: 1 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A

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

ACL/IPv4AdvanceRules

This table contains IPv4 advanced ACL rule information.

XML structure

```

<ACL>
  <IPv4AdvanceRules>
    <Rule>
      <GroupID></GroupID>
      <RuleID></RuleID>
      <Action></Action>
      <ProtocolType></ProtocolType>
      <SrcAny></SrcAny>
      <SrcIPv4>
        <SrcIPv4Addr></SrcIPv4Addr>
        <SrcIPv4Wildcard></SrcIPv4Wildcard>
      </SrcIPv4>
      <DstAny></DstAny>
      <DstIPv4>
        <DstIPv4Addr></DstIPv4Addr>
        <DstIPv4Wildcard></DstIPv4Wildcard>
      </DstIPv4>
      <DSCP></DSCP>
      <Precedence></Precedence>
      <TOS></TOS>
      <SrcPort>

```

```

        <SrcPortOp></SrcPortOp>
        <SrcPortValue1></SrcPortValue1>
        <SrcPortValue2></SrcPortValue2>
    </SrcPort>
    <DstPort>
        <DstPortOp></DstPortOp>
        <DstPortValue1></DstPortValue1>
        <DstPortValue2></DstPortValue2>
    </DstPort>
    <TcpFlag>
        <ACK></ACK>
        <FIN></FIN>
        <PSH></PSH>
        <RST></RST>
        <SYN></SYN>
        <URG></URG>
    </TcpFlag>
    <Established></Established>
    <ICMP>
        <ICMPType></ICMPType>
        <ICMPCode></ICMPCode>
    </ICMP>
    <Fragment></Fragment>
    <TimeRange></TimeRange>
    <VRF></VRF>
    <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: • 1—Deny. • 2—Permit.	N/A
ProtocolType	Protocol type.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 represents all IPv4 protocols.	N/A
SrcAny	Whether a rule matches any source IP addresses.	N/A	Boolean: • true—Matches any source IP addresses (default). • false—Matches the specified source IP address.	N/A
SrcIPv4	Source IPv4 information.	Data structure	Members include: • SrcIPv4Addr. • SrcIPv4Wildcard.	The members must both be specified.
SrcIPv4Addr	Source IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
SrcIPv4Wildcard	Wildcard mask for the source IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the SrcAny column is false . It must be empty when the SrcAny column is true .
DstAny	Whether a rule matches any destination IP addresses.	N/A	Boolean: • true—Matches any destination IP addresses (default). • false—Matches the specified destination IP address.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
DstIPv4	Destination IPv4 information.	Data structure	Members include: - DstIPv4Addr. - DstIPv4Wildcard.	The members must both be specified.
DstIPv4Addr	Destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 1.1.1.1. This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DstIPv4Wildcard	Wildcard mask for the destination IPv4 address.	N/A	String, dotted decimal notation.	Example: 255.255.255.0. This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
Precedence	IP precedence.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
TOS	ToS preference.	N/A	Unsigned integer. Value range: 0 to 15.	N/A
SrcPort	Source port information.	Data structure	Members include: - SrcPortOp. - SrcPortValue1. - SrcPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
SrcPortOp	Source port operator.	N/A	Enumeration: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the SrcPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.

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

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

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

ACL/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>
        <SrcIPv6Prefix></SrcIPv6Prefix>
      </SrcIPv6>
      <DstAny></DstAny>
      <DstIPv6>
        <DstIPv6Addr></DstIPv6Addr>
        <DstIPv6Prefix></DstIPv6Prefix>

```

```

    </DstIPv6>
    <DSCP></DSCP>
    <FlowLabel></FlowLabel>
    <RoutingTypeAny></RoutingTypeAny>
    <RoutingTypeValue></RoutingTypeValue>
    <SrcPort>
        <SrcPortOp></SrcPortOp>
        <SrcPortValue1></SrcPortValue1>
        <SrcPortValue2></SrcPortValue2>
    </SrcPort>
    <DstPort>
        <DstPortOp></DstPortOp>
        <DstPortValue1></DstPortValue1>
        <DstPortValue2></DstPortValue2>
    </DstPort>
    <TcpFlag>
        <ACK></ACK>
        <FIN></FIN>
        <PSH></PSH>
        <RST></RST>
        <SYN></SYN>
        <URG></URG>
    </TcpFlag>
    <Established></Established>
    <ICMP6>
        <ICMP6Type></ICMP6Type>
        <ICMP6Code></ICMP6Code>
    </ICMP6>
    <Fragment></Fragment>
    <HopTypeAny></HopTypeAny>
    <HopTypeValue></HopTypeValue>
    <TimeRange></TimeRange>
    <VRF></VRF>
    <Counting></Counting>
    <Logging></Logging>
    <Comment></Comment>
    <Status></Status>
    <Count></Count>
    <MatchIndex></MatchIndex>
    </Rule>
</IPv6AdvanceRules>
</ACL>

```

Table description

Item	Description
Feature name	ACL

Table name	IPv6AdvanceRules
Table type	Multi-instance table
Row name	Rule
Restrictions	None

Columns

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

Column name	Column description	Column type	Data type and restrictions	Remarks
DstAny	Whether a rule matches any destination IPv6 addresses.	N/A	Boolean: true—Matches any destination IPv6 addresses (default). false—Matches the specified destination IPv6 address.	N/A
DstIPv6	Destination IPv6 information.	Data structure	Members include: - DstIPv6Addr. - DstIPv6Prefix.	The two members must both be specified.
DstIPv6Addr	Destination IPv6 address.	N/A	Hexadecimal string, colon-separated.	Example: 1:1::1:1. This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DstIPv6Prefix	Length of the destination IPv6 address prefix.	N/A	Unsigned integer. Value range: 1 to 128.	This column is available when the DstAny column is false . It must be empty when the DstAny column is true .
DSCP	DSCP priority.	N/A	Unsigned integer. Value range: 0 to 63.	N/A
FlowLabel	Flow label value in an IPv6 packet header.	N/A	Unsigned integer. Value range: 0 to 1048575.	N/A
RoutingTypeAny	Whether a rule matches any types of routing header.	N/A	Boolean: true—Matches any types of routing header. false—Matches the specified type of routing header (default).	N/A
RoutingTypeValue	Routing header type.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
SrcPort	Source port information.	Data structure	Members include: - SrcPortOp. - SrcPortValue1. - SrcPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.

Column name	Column description	Column type	Data type and restrictions	Remarks
SrcPortOp	Source port operator.	N/A	Enumeration: 1—lt (lower than). 2—eq (equal to). 3—gt (greater than). 4—neq (not equal to). 5—range (inclusive range).	N/A
SrcPortValue1	Start source port.	N/A	Unsigned integer. Value range: 0 to 65535.	N/A
SrcPortValue2	End source port.	N/A	Unsigned integer. Value range: 0 to 65536.	When the SrcPortOp is 5 , the value range is 0 to 65535. Otherwise, it can only be 65536. The value 65536 indicates that the end source port is not available.
DstPort	Destination port information.	Data structure	Members include: - DstPortOp. - DstPortValue1. - DstPortValue2.	Only the TCP and UDP protocols support this column. The members must be all specified.
DstPortOp	Destination port operator.	N/A	Enumeration: 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: • ACK. • FIN. • PSH. • RST. • SYN. • URG.	N/A
ACK	ACK flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—ACK flag is not set. • 1—ACK flag is set.	Only the TCP protocol supports this column.
FIN	FIN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—FIN flag is not set. • 1—FIN flag is set.	Only the TCP protocol supports this column.
PSH	PSH flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—PSH flag is not set. • 1—PSH flag is set.	Only the TCP protocol supports this column.
RST	RST flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—RST flag is not set. • 1—RST flag is set.	Only the TCP protocol supports this column.
SYN	SYN flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—SYN flag is not set. • 1—SYN flag is set.	Only the TCP protocol supports this column.
URG	URG flag in a TCP packet.	N/A	Unsigned integer. Value range: 0 or 1. • 0—URG flag is not set. • 1—URG flag is set.	Only the TCP protocol supports this column.
Established	Whether a rule matches flags indicating the established status of a TCP connection.	N/A	Boolean: • true—Matches the flags. • false—Ignores the flags.	Only the TCP protocol supports this column. On a router, the rule matches TCP connection packets with the ACK or RST flag set. On a switch, the availability and usage of this column depend on the device model.

Column name	Column description	Column type	Data type and restrictions	Remarks
ICMP6	ICMPv6 messages.	Data structure	Members include: • ICMP6Type. • ICMP6Code.	The members must both be specified.
ICMP6Type	Type of ICMPv6 messages.	N/A	Unsigned integer. Value range: 0 to 255.	Only the ICMPv6 protocol supports this column.
ICMP6Code	Code of ICMPv6 messages.	N/A	Unsigned integer. Value range: 0 to 256. The value 256 indicates that no ICMPv6 message code is specified.	Only the ICMPv6 protocol supports this column.
Fragment	Whether a rule matches only non-first fragments.	N/A	Boolean: • true—Matches only non-first fragments. • false—Matches both fragments and non-fragments (default).	N/A
HopTypeAny	Whether a rule matched any types of Hop-by-Hop Options header.	N/A	Boolean: • true—Matches any types of Hop-by-Hop Options header. • false—Matches the specified type of Hop-by-Hop Options header (default).	N/A
HopTypeValue	Type of Hop-by-Hop Options header.	N/A	Unsigned integer. Value range: 0 to 255.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 0 to 32 characters.	N/A
VRF	VRF.	N/A	String, case-sensitive. Length: 0 to 31 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: • true—Counts the rule matches. • false—Does not count the rule matches (default).	N/A

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

ACL/MACRules

This table contains Ethernet frame header ACL rule information.

XML structure

```

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

```

```

    <LSAP>
      <LSAPType></LSAPType>
      <LSAPTypeMask></LSAPTypeMask>
    </LSAP>
    <TimeRange></TimeRange>
    <Counting></Counting>
    <Comment></Comment>
    <Status></Status>
    <Count></Count>
    <MatchIndex></MatchIndex>
  </Rule>
</MACRules>
</ACL>

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
GroupID	ACL number.	Index	Unsigned integer. Value range: 4000 to 4999.	N/A
RuleID	Rule ID.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
Action	Action on packets matching the rule.	N/A	Enumeration: 1—Deny. 2—Permit.	N/A
SrcMACAddr	Information about the source MAC address.	Data structure	Members include: - SrcMACAddress. - SrcMACMask.	The members must both be specified.
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.

Column name	Column description	Column type	Data type and restrictions	Remarks
DstMACAddr	Information about the destination MAC address.	Data structure	Members include: - DstMACAddress. - DstMACMask.	The members must both be specified.
DstMACAddress	Destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
DstMACMask	Mask of the destination MAC address.	N/A	Six groups of two hexadecimal digits, hyphen-separated.	Example: ff-ff-ff-ff-ff-ff.
COS	802.1p priority.	N/A	Unsigned integer. Value range: 0 to 7.	N/A
Protocol	Link layer protocol.	Data structure	Members include: - ProtocolType. - ProtocolTypeMask.	The members must both be specified.
ProtocolType	Type of the link layer protocol.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
ProtocolTypeMask	Mask of the link layer protocol type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
LSAP	LSAP.	Data structure	Members include: - LSAPType. - LSAPTypeMask.	The members must both be specified.
LSAPType	Type of LSAP.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
LSAPTypeMask	Mask of the LSAP type.	N/A	Hexadecimal string. Length: 1 to 4 characters. Value range: 0 to FFFF.	N/A
TimeRange	Time range.	N/A	String, case-insensitive. Length: 1 to 32 characters.	N/A
Counting	Whether to count the rule matches.	N/A	Boolean: true—Counts the rule matches. false—Does not count the rule matches (default).	N/A
Comment	Rule comment.	N/A	String, case-sensitive. Length: 1 to 127 characters.	N/A
Status	Rule status.	N/A	Enumeration: 1—Active. 2—Inactive.	N/A

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

ACL/PfilterDefAction

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

XML structure

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

Table description

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

Columns

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

ACL/PfilterApply

This table contains information about packet filter application.

XML structure

```
<ACL>
  <PfilterApply>
    <Pfilter>
      <AppObjType></AppObjType>
      <AppObjIndex></AppObjIndex>
      <AppDirection></AppDirection>
      <AppAclType></AppAclType>
      <AppAclGroup></AppAclGroup>
      <HardCount></HardCount>
      <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: • 1—Interface. • 2—VLAN. • 3—Global.	N/A
AppObjIndex	Index of the application object.	Index	Unsigned integer. Value range: 0 to 4294967295.	The value depends on the AppObjType column. • Interface index if AppObjType is 1. • VLAN ID in the range of 1 to 4094 if AppObjType is 2. • The value is 0 if AppObjType is 3.

Column name	Column description	Column type	Data type and restrictions	Remarks
AppDirection	Application direction.	Index	Enumeration: 1—Inbound. 2—Outbound.	N/A
AppAcIType	ACL type.	Index	Enumeration: 1—IPv4 ACL. 2—IPv6 ACL. 3—Ethernet frame header ACL. 4—ACL with the default action.	- Type 4 is a special ACL. - Type 3 is not supported in the current software version, and is reserved for future support.
AppAcIGroup	ACL name or number.	Index	- ACL name: Case-insensitive string of 1 to 63 characters. - ACL number: 0 or an unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be all. The value range depends on the AppAcIType column. 2000 to 5999 if AppAcIType is 1. 2000 to 3999 if AppAcIType is 2. 0 if AppAcIType is 4.
HardCount	Whether to count rule matches in hardware for the ACL.	N/A	Enumeration: 1—Enable. 2—Disable.	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>
      <AppAcIType></AppAcIType>
      <AppAcIGroup></AppAcIGroup>
      <AcIGroupStatus></AcIGroupStatus>
    
```

```

    <AcIgroupCountStatus></AcIgroupCountStatus>
    <AcIgroupPermitPkts></AcIgroupPermitPkts>
    <AcIgroupPermitBytes></AcIgroupPermitBytes>
    <AcIgroupDenyPkts></AcIgroupDenyPkts>
    <AcIgroupDenyBytes></AcIgroupDenyBytes>
  </GroupRunInfo>
</PfilterGroupRunInfo>
</ACL>

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppObjType	Type of the application object.	Index	Enumeration: 1—Interface. 2—VLAN. 3—Global.	N/A
AppObjIndex	Index of the application object.	Index	Unsigned integer. Value range: 0 to 4294967295.	The value depends on the AppObjType column. - Interface index if AppObjType is 1. - VLAN ID in the range of 1 to 4094 if AppObjType is 2. - The value is 0 if AppObjType is 3.
AppDirection	Application direction.	Index	Enumeration: 1—Inbound. 2—Outbound.	N/A

Column name	Column description	Column type	Data type and restrictions	Remarks
AppAclType	ACL type.	Index	Enumeration: 1—IPv4 ACL. 2—IPv6 ACL. 3—Ethernet frame header ACL 4—ACL with the default action.	- Type 4 is a special ACL. The default action can be the default MAC action, default IPv4 action, or default IPv6 action. - Type 3 is not supported in the current software version, and is reserved for future support
AppAclGroup	ACL name or number.	Index	- ACL name: Case-insensitive string of 1 to 63 characters. - ACL number: 0 or 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 depends on the AppAclType column. 2000 to 5999 if AppAclType is 1. 2000 to 3999 if AppAclType is 2. 1 if AppAclType is 4 and the default action is default MAC action. 2 if AppAclType is 4 and the default action is default IPv4 action. 3 if AppAclType is 4 and the default action is default IPv6 action.
AclGroupStatus	Whether an ACL is successfully applied.	N/A	Enumeration: 1—Succeeded. 2—Failed. 3—Partly succeeded.	N/A
AclGroupCountStatus	Whether an ACL with hardware counting enabled is successfully applied.	N/A	Enumeration: 1—Succeeded. 2—Failed. 3—Partly succeeded.	N/A
AclGroupPermitPackets	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.
AclGroupPermitBytes	Number of permitted bytes.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support match counting for packet filter, 0xFFFFFFFFFFFFFFFF is returned.

Column name	Column description	Column type	Data type and restrictions	Remarks
AclGroupDenyPkts	Number of denied packets.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support match counting for packet filter, 0xFFFFFFFFFFFFFFFF is returned.
AclGroupDenyBytes	Number of denied bytes.	N/A	Unsigned integer. Value range: 0 to $2^{64} - 1$.	If the device does not support match counting for packet filter, 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>
      <AppAcIType></AppAcIType>
      <AppAcIGroup></AppAcIGroup>
      <AppAcIRuleIndex></AppAcIRuleIndex>
      <AcIRuleStatus></AcIRuleStatus>
      <AcIRuleCountStatus></AcIRuleCountStatus>
      <AcIRuleMatchPkts></AcIRuleMatchPkts>
      <AcIRuleMatchBytes></AcIRuleMatchBytes>
    </RuleRunInfo>
  </PfilterRuleRunInfo>
</ACL>

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AppObjType	Type of the application object.	Index	Enumeration: 1—Interface. 2—VLAN. 3—Global.	N/A
AppObjIndex	Index of the application object.	Index	Unsigned integer. Value range: 0 to 4294967295.	The value depends on the AppObjType column. - Interface index if AppObjType is 1. - VLAN ID in the range of 1 to 4094 if AppObjType is 2. - The value is 0 if AppObjType is 3.
AppDirection	Application direction.	Index	Enumeration: 1—Inbound. 2—Outbound.	N/A
AppAclType	ACL type.	Index	Enumeration: 1—IPv4 ACL. 2—IPv6 ACL.	N/A
AppAclGroup	ACL name or number.	Index	ACL name: Case-insensitive string of 1 to 63 characters. ACL number: 0 or 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. 2000 to 5999 if AppAclType is 1. 2000 to 3999 if AppAclType is 2.
AppAclRuleIndex	Index of the ACL rules.	Index	Unsigned integer. Value range: 0 to 65534.	N/A
AclRuleStatus	Whether an ACL rule is successfully applied.	N/A	Enumeration: 1—Succeeded. 2—Failed. 3—Partly succeeded.	N/A
AclRuleCountStatus	Whether an ACL rule with hardware counting enabled is successfully applied.	N/A	Enumeration: 1—Succeeded. 2—Failed. 3—Partly succeeded.	N/A

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, 0xFFFFFFFF 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, 0xFFFFFFFF is returned.

ACL/PfilterStatisticSum

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

XML structure

```

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

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
Direction	Application direction	Index	Enumeration: 1—Inbound. 2—Outbound.	N/A
AclType	ACL type	Index	Enumeration: 1—IPv4 ACL. 2—IPv6 ACL.	N/A
AclGroup	ACL name or number	Index	ACL name: Case-insensitive string of 1 to 63 characters. ACL number: 0 or 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 AclType column. 2000 to 5999 if AclType is 1. 2000 to 3999 if AclType is 2.
AclRuleIndex	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, 0xFFFFFFFF 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, 0xFFFFFFFF is returned.

ACL/UserRules

This table contains information about user-defined ACL rules.

XML structure

```

<ACL>
  <UserRules>
    <Rule>
      <GroupID></GroupID>
    
```

```

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

```

Table description

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

Columns

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

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

ACL/ZonePairPfilterApply

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

XML structure

```
<ACL>
  <ZonePairPfilterApply>
    <Pfilter>
      <SrcZone></SrcZone>
      <DestZone></DestZone>
      <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. 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(-).
AclType	ACL type.	Index	Enumeration: 1—IPv4 ACL. 2—IPv6 ACL. 3—Ethernet frame header ACL.	Type 3 is not supported in the current software version, and is reserved for future support.

Column name	Column description	Column type	Data type and restrictions	Remarks
AcIgroup	ACL name or number.	Index	- ACL name: Case-insensitive string of 1 to 63 characters. - ACL number: An unsigned integer in the range of 2000 to 5999.	An ACL name must start with an English letter and cannot be all. The value range depends on the AppAcIType column. 2000 to 5999 if AppAcIType is 1. 2000 to 3999 if AppAcIType is 2.
AppSequence	ACL application sequence.	N/A	Unsigned integer. Value range: 1 to 4294967295.	N/A

ACL/ZonePairPfilterRules

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

XML structure

```

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

```

Table description

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

Columns

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