

Comware V7 MAC NETCONF XML API Data Reference

Revision Record

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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

Column name	Column description	Column type	Data type and restrictions	Remarks
NickName	RB through which packets leave the TRILL network	N/A	Hexadecimal string of 16-bit number	N/A
Status	Status of the MAC address entry	N/A	Enumeration: • 0—Other. • 1—Security. • 2—Learned. • 3—Static. • 4—Blackhole.	N/A
Aging	Aging time	N/A	Boolean: • true—The entry is aging. • false—The entry does not age.	N/A

MAC/MacGroupTable

This table contains multiport MAC address table information.

XML structure

```

<MAC>
  <MacGroupTable>
    <Group>
      <VLANID></VLANID>
      <MacAddress></MacAddress>
      <Status></Status>
      <PortList></PortList>
    </Group>
  </MacGroupTable>
</MAC>

```

Table description

Item	Description
Feature name	MAC
Table name	MacGroupTable
Table type	Multi-instance table
Row name	Group
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
Status	Status of the MAC address entry	N/A	Enumeration: • 5—Multiport. • 6—Multicast.	N/A
PortList	Port list of the MAC address	N/A	Base64 string.	Bitmap of ports.

MAC/MacAging

This table contains the information of aging time for dynamic MAC address entries.

XML structure

```
<MAC>
  <MacAging>
    <AgingTimeMin></AgingTimeMin>
    <AgingTimeMax></AgingTimeMax>
    <AgingTime></AgingTime>
  </MacAging>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacAging
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
AgingTimeMin	Lower limit of the aging time	N/A	Unsigned integer.	N/A
AgingTimeMax	Upper limit of the aging time	N/A	Unsigned integer.	N/A
AgingTime	Aging time for dynamic MAC address entries	N/A	Unsigned integer. Value range: 0, AgingTimeMin to AgingTimeMax seconds.	The default is 300 seconds. 0 means not aging dynamic MAC address entries. Values of AgingTimeMin and AgingTimeMax depend on the device model.

MAC/MacPort

This table contains the information of MAC learning on an interface.

XML structure

```

<MAC>
  <MacPort>
    <PortLearn>
      <PortIndex></PortIndex>
      <LearnEnable></LearnEnable>
      <LearnMaxNum></LearnMaxNum>
      <PortForwardingEnable></PortForwardingEnable>
    </PortLearn>
  </MacPort>
</MAC>

```

Table description

Item	Description
Feature name	MAC
Table name	MacPort
Table type	Multi-instance table
Row name	PortLearn
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface S-channel interface/S-channel aggregate interface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
PortIndex	Port index	Index	Unsigned integer.	N/A
LearnEnable	MAC address learning	N/A	Boolean: true—Enabled (default). false—Disabled.	N/A
LearnMaxNum	MAC learning limit on an interface	N/A	Unsigned integer. Value range: 0 to PortLearnMaxNumLimit.	Supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface. 0 means the interface is disabled from learning MAC address. The value of PortLearnMaxNumLimit depends on the device model. The default setting varies by device model.
PortForwardingEnable	Forwards frames with unknown source MAC addresses after the number of learned MAC addresses reaches the upper limit	N/A	Boolean: true—Enabled (default). false—Disabled.	Supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface.

MAC/MacVLAN

This table contains the information of MAC learning for a VLAN.

XML structure

```

<MAC>
  <MacVLAN>
    <VLANLearn>
      <VLANID></VLANID>
      <LearnEnable></LearnEnable>
      <LearnMaxNum></LearnMaxNum>
      <VLANForwardingEnable></VLANForwardingEnable>
    </VLANLearn>
  </MacVLAN>
</MAC>

```


Table description

Item	Description
Feature name	MAC
Table name	MacVLAN
Table type	Multi-instance table
Row name	VLANLearn
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
LearnEnable	MAC address learning	N/A	Boolean: true—Enabled(default). false—Disabled.	N/A
LearnMaxNum	MAC learning limit for a VLAN	N/A	Unsigned integer. Value range: 0 to VLANLearnMaxNumLimit.	0 means the VLAN is not allowed to learn MAC addresses. The value of VLANLearnMaxNumLimit depends on the device model. The default setting varies by device model.
VLANForwardingEnable	Forwards frames with unknown source MAC addresses after the number of learned MAC addresses reaches the upper limit	N/A	Boolean: true—Enabled(default). false—Disabled.	N/A

MAC/MacSpecification

This table contains MAC specifications information.

XML structure

```
<MAC>
  <MacSpecification>
```

```

    <SupportMacGroup></SupportMacGroup>
    <SupportMacVLANLearnLimit></SupportMacVLANLearnLimit>
    <PortLearnMaxNumLimit></PortLearnMaxNumLimit>
    <VLANLearnMaxNumLimit></VLANLearnMaxNumLimit>
  </MacSpecification>
</MAC>

```

Table description

Item	Description
Feature name	MAC
Table name	MacSpecification
Table type	Single-instance table
Row name	None
Restrictions	None

Columns

Column name	Column description	Column type	Data type and restrictions
SupportMacGroup	Supports for multiport MAC addresses.	N/A	Boolean: true—Support. false—Not support.
SupportMacVLANLearnLimit	Supports for configuring the MAC learning limit for a VLAN.	N/A	Boolean: true—Support. false—Not support.
PortLearnMaxNumLimit	Upper limit of the maximum number for the MAC learning limit on an interface.	N/A	Unsigned integer.
VLANLearnMaxNumLimit	Upper limit of the maximum number for the MAC learning limit for a VLAN.	N/A	Unsigned integer.

MAC/MacFwdSrcCheck

This table contains the information of source-mac check.

XML structure

```
<MAC>
  <MacFwdSrcCheck>
    <FwdSrcCheck>
      <IfIndex></IfIndex>
      <FwdSrcCheck></FwdSrcCheck>
    </FwdSrcCheck>
  </MacFwdSrcCheck>
</MAC>
```

Table description

Item	Description
Feature name	MAC
Table name	MacFwdSrcCheck
Table type	Multi-instance table
Row name	FwdSrcCheck
Restrictions	This table supports interface types: Layer 2 Ethernet interface Layer 3 Ethernet interface/subinterface

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
IfIndex	IfIndex ID	Index	Unsigned integer.	N/A
FwdSrcCheckEnable	Source MAC address checking	N/A	Boolean: true—Enabled (default). false—Disabled.	N/A