

Comware V7 MAC NETCONF XML API Configuration 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>
      <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.

Column name	Column description	Column type	Data type and restrictions	Remarks
PortIndex	Port index	N/A	Unsigned integer.	Required when Status is Learned or Static. It must not be specified when Status is Blackhole.
Status	Status of the MAC address entry	N/A	Enumeration: • 2—Learned. • 3—Static. • 4—Blackhole.	N/A

MAC/MacGroupTable

This table contains multiport MAC address table information.

XML structure

```

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

```

Table description

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

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
MacAddress	MAC address	Index	Six groups of two hexadecimal digits, hyphen-separated.	Example: 00-0c-af-e3-5d-c0.
Status	Status of the MAC address entry	N/A	Enumeration: • 5—Multiport. • 6—Multicast.	N/A
PortList	Port list of the MAC address	N/A	Base64 string.	Bitmap of ports. the string length depends on the device port number. Supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface. Each bit represents a port. The left-most bit represents the port with the smallest port index 1 and the right-most bit represents the port with the biggest port index. If a bit is set, the port represented by the bit is included in the port set. Otherwise, the port isn't included.

MAC/MacAging

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

XML structure

```
<MAC>
  <MacAging>
    <AgingTime></AgingTime>
  </MacAging>
</MAC>
```

Table description

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

Columns

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

MAC/MacPort

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

XML structure

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

Table description

Item	Description
Feature name	MAC
Table name	MacPort
Table type	Multi-instance table
Row name	PortLearn
Restrictions	This table supports interface types: Layer 2 Ethernet interface/Layer 2 aggregate interface S-channel interface/S-channel aggregate interface
Support for row creation and deletion	No

Columns

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

MAC/MacVLAN

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

XML structure

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

Table description

Item	Description
Feature name	MAC
Table name	MacVLAN
Table type	Multi-instance table
Row name	VLANLearn
Restrictions	None
Support for row creation and deletion	No

Columns

Column name	Column description	Column type	Data type and restrictions	Remarks
VLANID	VLAN ID	Index	Unsigned integer. Value range: 1 to 4094.	N/A
LearnEnable	Whether the MAC address learning function is enable	N/A	Boolean: • true(default) • false	N/A

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

MAC/MacFwdSrcCheck

This table contains the information of source-mac check.

XML structure

```

<MAC>
  <MacFwdSrcCheck>
    <FwdSrcCheck>
      <IfIndex></IfIndex>
      <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
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.	N/A
FwdSrcCheckEnable	Source MAC address checking	N/A	Boolean: true—Enabled (default). false—Disabled.	N/A