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## **Commands of MAC Address Management-3**

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## Chapter 1 Commands of MAC Address Management

### 1.1 mac-address-table learning

#### [Function]

Enable and disable MAC address learning function of physical port.

#### [Command Format]

**mac-address-table learning** {enable/disable} **port-list** {all|port-number} [schedule-list list-no]

#### [Parameter]

*enable*: enable learning function

*disable*: disable learning function

*port-list*: physical port list

*all*: all the physical ports

*port-number*: the number of port, range from 1 to 26; use comma to separate, ie: 1,8-5,23;

*schedule-list*: Set the starting time, ending time and periodical operation time.

*list-no*: specify the certain schedule list <0-99>.

#### [Default]

By default, the learning function of MAC address is enabled.

#### [Command Modes]

Global configuration mode

#### [Explanation of command execution echo]

*Set successfully*

*Set port XX unsuccessfully!*

*The input port list is wrong!*

#### [Example]

Enable MAC address learning function of port 5:

Raisecom(config)#**mac-address-table learning disable port-list 5, 10**

#### [Related commands]

Commands	Description
<b>show interface port</b>	Show one or all ports state.

## 1.2 mac-address-table static multicast

### [Function]

Use the command to add a layer-2 port as multicast group member, **no** command can cancel the configuration.

### [Command Format]

**[no] mac-address-table static multicast** *mac-address* **vlan** *vlan\_id* **port** *portlist*

### [Parameter]

*mac-address*: specify static group MAC address, in format of 0100.5eHH.HHHH;

*vlan*: VLAN

*vlanid*: VLAN ID (optional), range from 1 to 4094;

*port*: physical port;

*portlist*: specify static router port number being configured, range: 1~26.

### [Command Modes]

Global configuration mode; privileged user

### [Command Executing Instruction]

Use the command to add a layer-2 port as multicast group member, **no** command can cancel the configuration.

### [Explanation of command execution echo]

*VLAN X does not exist or not active.*

*Port is not in vlan.*

*IGMP snooping on VLAN is disable!*

*Join port in a assigned group on assigned VLAN successfully*

*Join port in a assigned group on assigned VLAN unsuccessfully*

*Disable join port in a assigned group on assigned VLAN successfully*

*Disable join port in a assigned group on assigned VLAN unsuccessfully*

Fail to disable join port in a specified group on specified VLAN, the reason maybe MAC address not exist or port not exist.

### [Example]

The below example shows how to add ports 1-5 into group 0100.5e02.0203:

Raisecom(config)#**mac-address-table static multicast** 0100.5e02.0203 **vlan** 1 **line** 1-5

The below example shows how to cancel adding ports 1-5 into group 0100.5e02.0203:

Raisecom(config)#**no mac-address-table static multicast 0100.5e02.0203 vlan 1 line 1-5**

#### [Related commands]

Commands	Description
<b>show mac-address-table static</b>	Show static address of some one or all (ports or VLAN) .

## 1.3 mac-address-table static unicast

#### [Function]

Set the static MAC address, no command to delete.

#### [Command Format]

**[no] mac-address-table static unicast HHHH.HHHH.HHHH vlan vlan\_id port port-number**

#### [Parameter]

*static*: static address

*HHHH.HHHH.HHHH*: MAC address, hexadecimal number, each four characters to be point separate;

*vlan*: VLAN;

*vlan\_id*: VLAN ID, range from 1-4094;

*port*: physical ports;

*port-number*: physical port, range from 1-26.

#### [Default]

No static MAC address.

#### [Command Modes]

Global configuration mode

#### [Explanation of command execution echo]

*Set successfully*

*VLAN X does not exist or not active!*

*Port X is not in vlan Y!*

*Join port X in a assigned group Y on assigned VLAN Z unsuccessfully!*

*Warning! This MAC address has already existed.*

#### [Example]

Set the static MAC address for port 3 which is associated with VLAN 1:

```
Raisecom(config)#mac-address-table static unicast 1234.abcd.0000 vlan 1 port 3
```

Delete the static MAC address for port 3 which is associated with VLAN 1:

```
Raisecom(config)#no mac-address-table static unicast 1234.abcd.0000 vlan 1 port 3
```

#### [Related commands]

Commands	Description
<b>show mac-address-table static</b>	Show the static address information for one or all (ports or VLAN).

## 1.4 show mac-address-table l2-address

#### [Function]

Show all the addresses list in the current MAC address table, including static setting and dynamic MAC address which have not been aged.

#### [Command Format]

```
show mac-address-table l2-address port port-number
```

#### [Parameter]

*vlan*: VLAN;

*vlan\_id*: VLAN ID, range from 1-4094;

*port*: physical port;

*port-number*: physical port number, range from 1-26.

#### [Command Modes]

Privileged user

#### [Explanation of command execution echo]

Show “MAC address, port, VLAN, symbol” and other address item information.

#### [Example]

Show all the MAC address:

```
Raisecom#show mac-address-table l2-address
```

Show all the MAC address of physical port 5:

```
Raisecom#show mac-address-table l2-address port 5
```

Show all the MAC address of vlan 2:

```
Raisecom#show mac-address-table l2-address vlan 2
```

#### [Related commands]

Commands	Description
<b>search mac-address</b> <i>HHHH.HHHH.HHHH</i>	Search MAC address state in switch.

## 1.5 show mac-address-table l2-address count

### [Function]

Count MAC address table items.

### [Command Format]

**show mac-address-table l2-address count port** *port-number*

### [Parameter]

*count*: count the number;

*vlan*: VLAN;

*vlan\_id*: VLAN ID, range from 1-4094;

*port*: physical port;

*port-number*: physical port number, range from 1-26.

### [Command Modes]

Privileged user.

### [Explanation of command execution echo]

Show the number of related MAC address.

### [Example]

Count the number of all the MAC address:

Raisecom#**show mac-address-table l2-address count**

Count the number of MAC address for physical port 5:

Raisecom#**show mac-address-table l2-address count port 5**

Count the number for all MAC address of VLAN 2:

Raisecom#**show mac-address-table l2-address count vlan 2**

### [Related commands]

Commands	Description
<b>search mac-address</b> HHHH.HHHH.HHHH	Search the state of MAC address in the switch.

## 1.6 show mac-address-table static

### [Function]

Show static MAC address information.

### [Command Format]

**show mac-address-table static port** *port-number*

### [Parameter]

*port*: physical port;

*port-number*: physical port number, range from 1-26.

#### [Command Modes]

privileged user

#### [Explanation of command execution echo]

Information of static mac address in switch:

port No.      VLAN ID      static MAC Addr

#### [Example]

Show the static MAC address table of physical port 5:

Raisecom#**show mac-address-table static port 5**

#### [Related commands]

Commands	Description
<b>mac-address-table static</b>	Set static MAC address





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