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Commands of MAC Address Management-5

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Chapter 1 Commands of MAC Address Management

1.1 mac-address-table static unicast

[Function]

Set the static MAC address priority.

[Command Format]

mac-address-table static unicast *HHHH.HHHH.HHHH* **vlan** *vlan_id* **port** *port-number*
[priority <0-7>]

[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

priority: MAC priority level;

0-7: priority value.

[Default]

The priority values -1 by default.

[Command Modes]

Global configuration mode

[Command Executing Instruction]

This command is used to modify static MAC address priority level and value priority -1 if the priority had not been set when creating static MAC address, showing N/A.

[Explanation of command execution echo]

Set successfully

This mac address has already existed,but its priority has been modified!

This MAC address has already existed.

[Example]

Set MAC 1234.1234.1234 priority is 1 under global configuraiton mode:

Raisecom(config)#**mac-address-table static unicast 1234.1234.1234 vlan 10 port 2 priority 1**

[Related commands]

Commands	Description
show mac-address-table static	Show information of static MAC address.
no mac-address-table static unicast HHHH.HHHH.HHHH vlan <i>vlan_id</i> priority	Recover priority to be default value.

1.2 mac-address-table static unicast

[Function]

Set MAC policy of the static MAC address (to mirror, forward or drop).

[Command Format]

mac-address-table static unicast HHHH.HHHH.HHHH vlan *vlan_id* port *port-number* mac-policy

[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 number;

mac-policy: MAC policy (to mirror, forward or drop).

[Default]

Disable static MAC policy.

[Command Modes]

Global configuration mode

[Command Executing Instruction]

This command is used to configure MAC policy of the static MAC address, default to be disable if no policy been configured when creating static MAC address.

[Explanation of command execution echo]

Set successfully

This mac address has already existed, but its mac-policy has been modified!

This MAC address has already existed.

[Example]

Enable MAC 1234.1234.1234 mac-policy under global configuraiton mode:

```
Raisecom(config)#mac-address-table static unicast 1234.1234.1234 vlan 10 port 2
mac-policy
```

[Related commands]

Commands	Description
show mac-address-table static	Show information of static MAC address.
no mac-address-table static unicast <i>HHHH.HHHH.HHHH</i> vlan <i>vlan_id</i> mac-policy	Recover mac-policy to be default value.

1.3 mac-address-table static unicast

[Function]

Set none-rate-limit function of the static MAC address.

[Command Format]

```
mac-address-table static unicast HHHH.HHHH.HHHH vlan vlan_id port port-number
none-rate-limit
```

[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 number;

none-rate-limit: no rate-limit of the port.

[Default]

Disable static MAC none-rate-limit.

[Command Modes]

Global configuration mode

[Command Executing Instruction]

This command is used to configure none-rate-limit function of the static MAC address, default to be disable if the function has not been configured when creating static MAC address.

[Explanation of command execution echo]

Set successfully

This mac address has already existed, but its NRL has been modified!

This MAC address has already existed.

[Example]

Enable MAC 1234.1234.1234 none-rate-limit under global configuraiton mode:

```
Raisecom(config)#mac-address-table static unicast 1234.1234.1234 vlan 10 port 2 none-rate-limit
```

[Related commands]

Commands	Description
show mac-address-table static	Show information of static MAC address.
no mac-address-table static unicast HHHH.HHHH.HHHH vlan <i>vlan_id</i> none-rate-limit	Recover none-rate-limit to be default value.

1.4 no mac-address-table static unicast

[Function]

Recover priority of static MAC address to be default value.

[Command Format]

```
no mac-address-table static unicast HHHH.HHHH.HHHH vlan vlan_id priority
```

[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;

priority: MAC priority level;

[Default]

The priority values -1 by default.

[Command Modes]

Global configuration mode

[Command Executing Instruction]

Modify static MAC address priority to default value, showing N/A.

[Explanation of command execution echo]

This mac address has already existed,but its priority has been modified!

This MAC address has already existed.

[Example]

Set MAC 1234.1234.1234 priority is 1 under global configuraiton mode:

Raisecom(config)#**no mac-address-table static unicast 1234.1234.1234 vlan 10 priority 1**

[Related commands]

Commands	Description
show mac-address-table static	Show information of static MAC address.
mac-address-table static unicast HHHH.HHHH.HHHH vlan vlan_id port port-number [priority <0-7>]	Set MAC priority.

1.5 no mac-address-table static unicast

[Function]

Disable MAC policy of the static MAC address.

[Command Format]

no mac-address-table static unicast HHHH.HHHH.HHHH vlan vlan_id mac-policy

[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;

[Default]

Disable static MAC policy.

[Command Modes]

Global configuration mode

[Command Executing Instruction]

This command is used to configure MAC policy of the static MAC address, default to be disable if no policy been configured when creating static MAC address.

[Explanation of command execution echo]

This mac address has already existed,but its MAC-Policy has been modified!

This MAC address has already existed.

[Example]

Disable MAC 1234.1234.1234 mac-policy under global configuraiton mode:

Raisecom(config)# **no mac-address-table static unicast 1234.1234.1234 vlan 10 mac-policy**

[Related commands]

Commands	Description
show mac-address-table static	Show information of static MAC address.
mac-address-table static unicast <i>HHHH.HHHH.HHHH</i> vlan <i>vlan_id</i> port <i>port-number</i> mac-policy	Set MAC policy of the static MAC address (to mirror, forward or drop).

1.6 no mac-address-table static unicast

[Function]

Disable none-rate-limit function of the static MAC address.

[Command Format]

no mac-address-table static unicast *HHHH.HHHH.HHHH* **vlan** *vlan_id* **none-rate-limit**

[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;

none-rate-limit: no rate-limit for the port.

[Default]

Disable static MAC none-rate-limit.

[Command Modes]

Global configuration mode

[Command Executing Instruction]

Disable static MAC none-rate-limit.

[Explanation of command execution echo]

This mac address has already existed, but its NRL has been modified!

This MAC address has already existed.

[Example]

Disable MAC 1234.1234.1234 none-rate-limit under global configuration mode:

```
Raisecom(config)# no mac-address-table static unicast 1234.1234.1234 vlan 10 none-rate-limit
```

[Related commands]

Commands	Description
show mac-address-table static	Show information of static MAC address.
mac-address-table static unicast	Set none-rate-limit function of the static MAC

<i>HHHH.HHHH.HHHH</i> vlan <i>vlan_id</i>	address.
port <i>port-number</i> none-rate-limit	

1.7 no mac-policy {smac/dmac} portlist portlist

[Function]

Set port static MAC policy to default value.

[Command Format]

no mac-policy {smac/dmac} **portlist** portlist

[Parameter]

smac: source MAC address;

dmac: destination MAC address;

drop: drop policy;

portlist: mirror policy port list.

[Default]

The policy is forward by default.

[Command Modes]

Global configuration mode

[Command Executing Instruction]

This command set port static MAC policy to default value.

[Explanation of command execution echo]

Set successfully

Set Unsuccessfully

[Example]

Set port 5 SMAC to be in forward policy under global configuraiton mode:

Raisecom(config)# **no mac-policy smac portlist 5**

[Related commands]

Commands	Description
show mac-policy portlist portlist	Show MAC policy configuration information of every port.
mac-policy {smac/dmac} {drop/mirror} portlist portlist	Configuring port static MAC policy.

1.8 mac-policy {smac/dmac} {drop/mirror} portlist portlist

[Function]

Configuring port static MAC policy.

[Command Format]

mac-policy {*smac/dmac*} {*drop/mirror*} **portlist** *portlist*

[Parameter]

smac: source MAC address;

dmac: destination MAC address;

drop: drop policy;

mirror: mirror policy;

portlist: port list.

[Default]

The policy is forward by default.

[Command Modes]

Global configuration mode

[Command Executing Instruction]

This command set port static MAC policy. It is invalid until global static MAC policy enable and fulfills message drop and flow mirror function on port ingress basis.

[Explanation of command execution echo]

Set successfully

Set Unsuccessfully

[Example]

Set port 5 SMAC to be in mirror policy under global configuration mode:

Raisecom(config)# **mac-policy smac mirror portlist 5**

[Related commands]

Commands	Description
show mac-policy portlist <i>portlist</i>	Show MAC policy configuration information of every port.
no mac-policy { <i>smac/dmac</i> } portlist <i>portlist</i>	Recover port policy on smac and dmac basis to default value, that is forward, .

1.9 show mac-address-table static

[Function]

Show static MAC address information.

[Command Format]

show mac-address-table static

[Command Modes]

Global configuration mode

[Command Executing Instruction]

This command show configuration information of mac policy at every port.

[Explanation of command execution echo]

```

Port          Vlan          Static Mac Addrress  Priority  Mac-policy  None-Rate-Limit
-----
<port-id> <vlan-id>  HHHH.HHHH.HHHH<-1—7> {Enable|Disable}{Enable|Disable}

```

[Example]

Show static mac policy configuration information under global enable mode:

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

[Related commands]

Commands	Description
mac-address-table static unicast <i>HHHH.HHHH.HHHH vlan vlan_id port</i> <i>port-number [priority <0-7>]</i>	Set static MAC address priority level.
mac-address-table static unicast <i>HHHH.HHHH.HHHH vlan vlan_id port</i> <i>port-number mac-policy</i>	Set static MAC policy (to mirror, forward or drop).
mac-address-table static unicast <i>HHHH.HHHH.HHHH vlan vlan_id port</i> <i>port-number mac-policy</i>	Set static MAC address none-rate-limit property.
no mac-address-table static unicast <i>HHHH.HHHH.HHHH vlan vlan_id priority</i>	Set priority of static MAC address to default value.
no mac-address-table static unicast <i>HHHH.HHHH.HHHH vlan vlan_id</i> mac-policy	Disable mac-policy of static mac address.
no mac-address-table static unicast <i>HHHH.HHHH.HHHH vlan vlan_id</i> none-rate-limit	Disable none-rate-limit of static mac address.

1.10 show mac-policy portlist *portlist*

[Function]

Show static MAC address information of every port.

[Command Format]

show mac-policy portlist *portlist*

[Paramter]

portlist: mirror portlist

[Command Modes]

Global configuration mode

[Command Executing Instruction]

This command show configuration information of mac policy at every port.

[Explanation of command execution echo]

<i>port</i>	<i>smac-policy</i>	<i>dmac-policy</i>

< <i>port-id</i> >	< <i>Transmitting/Drop/Mirror</i> >	< <i>Transmitting/Ddrop/Mirror</i> >

[Example]

Show mac policy of port 5 under global enable mode:

Raisecom#**show mac-policy portlist 5**

[Related commands]

Commands	Description
no mac-policy { <i>smac/dmac</i> } portlist <i>portlist</i>	Recover to forward policy for port on smac and dmac basis.
mac-policy { <i>smac/dmac</i> } { <i>drop/mirror</i> } portlist <i>portlist</i>	Configuring port static MAC policy.



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