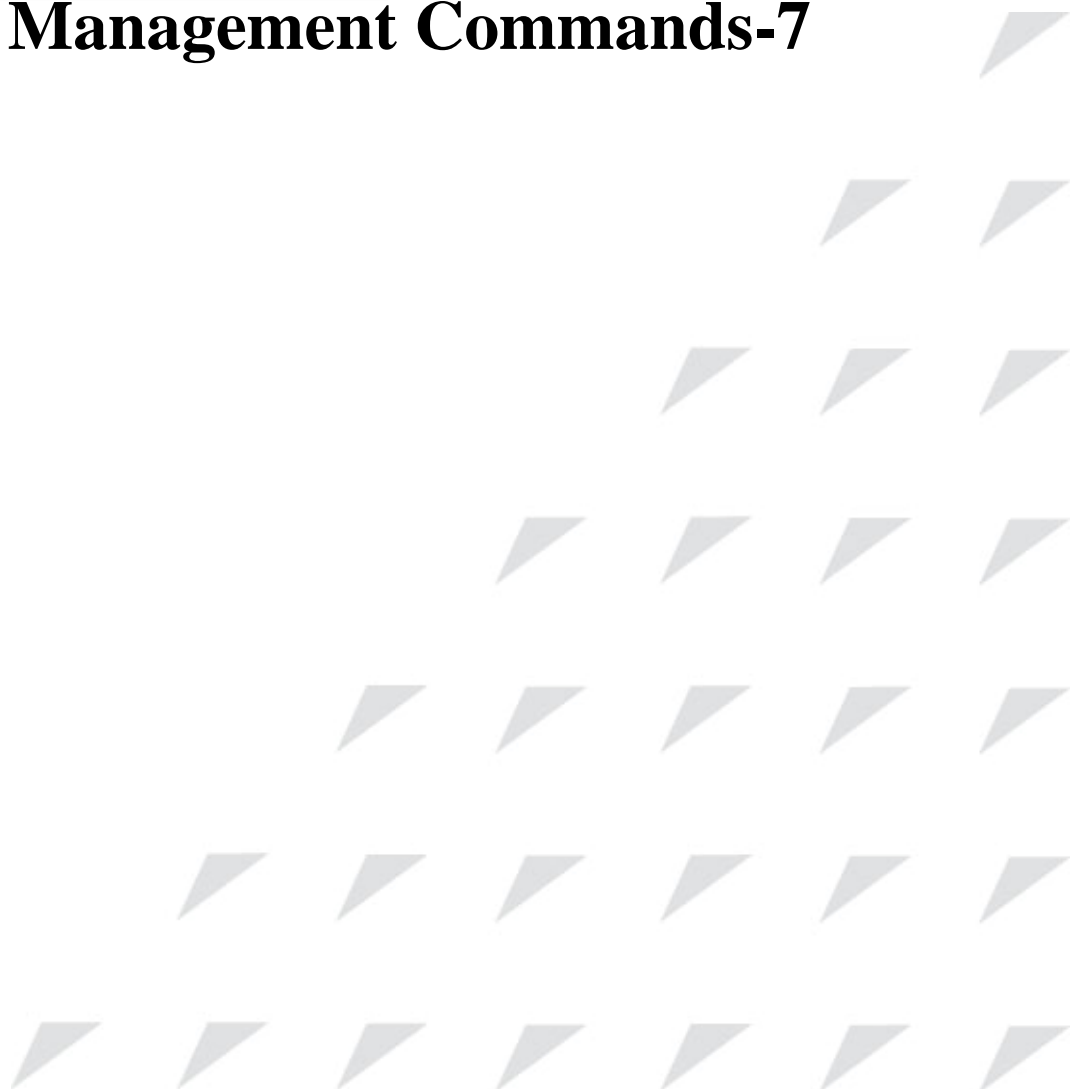


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Bandwidth Management Commands-7



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Chapter 1 Bandwidth Commands

1.1 mac-address-table static unicast

[Function]

Set the static MAC address none-rate limit feature.

[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 for the port.

[Default]

No rate limit for static MAC address.

[Command Modes]

Global configuration mode

[Command Executing Instruction]

This command is used to set static MAC address none-rate-limit feature, if the static MAC address had not been set with this feature, showing disable.

[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 static MAC address 1234.1234.1234 in global configuration 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 the static MAC address information.
no mac-address-table static	
unicast HHHH.HHHH.HHHH	Recover MAC static unicast to default value.
vlan vlan_id none-rate-limit	

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

[Function]

Disable static MAC address none-rate-limit feature.

[Command Format]

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

[Parameter]

static: static MAC 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]

No MAC address none-rate-limit.

[Command Modes]

Global configuration mode

[Command Executing Instruction]

Disable statis 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!

The modifying MAC address is identical to the former one.

[Example]

Disable MAC address 1234.1234.1234 none-rate-limit in 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 <i>HHHH.HHHH.HHHH</i>	Configure MAC address none-rate-limit
vlan <i>vlan_id</i> port <i>port-number</i>	disable.
none-rate-limit	

1.3 no rate-limit flow-control

[Function]

Disable flow control when rate is too high, and change to drop mode.

[Command Format]

no rate-limit flow-control

[Default]

Drop mode

[Command Modes]

Port configuration mode

[Command Executing Instruction]

This command is to set mode when port message rate is over threshold under port configuration mode.

[Explanation of command execution echo]

Set successfully

Set Unsuccessfully

[Example]

Disable flow control mode under port 2 configuration mode:

Raisecom(config-port)# **no rate-limit flow-control**

[Related commands]

Commands	Description
show interface port <i>port_id</i> rate-limit	Show current configuration of assigned port ingressrate.
rate-limit flow-control	Enable flow control mode when rate over threshold.

1.4 no rate-limit portlist *portlist* session {0-4}

[Function]

Discharge specified rate-limit resource at the port.

[Command Format]

no rate-limit portlist *portlist* **session** {0-4}

[Parameter]

portlist: port list;

0-4: conversation list.

[Command Modes]

Global configuration mode

[Command Executing Instruction]

This command is used to discharge session resource at specified port.

[Explanation of command execution echo]

Set successfully

Set Unsuccessfully

The session session of port portid is storm-control,it can't be deleted!

The session resource to delete is occupied by storm-control now.

[Example]

Delete session 3 of port 2 under global configuration mode:

Raisecom(config)# **no rate-limit portlist 2 session 3**

[Related commands]

Commands	Description
rate-limit port-list <i>portlist</i> ingress <1-1000000>	Set value of rate-limit resource.
show interface port <i>port_id</i> rate-limit	Show specified port ingress rate limit configuration.

1.5 no rate-limit {smac/dmac} none-rate-limit

[Function]

Disable port none-rate-limit function on SMAC and DMAC basis.

[Command Format]

no rate-limit {smac/dmac} none-rate-limit

[Parameter]

smac: source MAC address;

dmac: destination MAC address.

[Default]

Disable this function

[Command Modes]

Port configuration mode

[Command Executing Instruction]

This command is used to enable/disable port none-rate-limit function on SMAC and DMAC basis under port configuration mode.

[Explanation of command execution echo]

Set successfully

Set Unsuccessfully

[Example]

Disable source MAC none-rate-limit operation of port 2 under port configuration mode:

Raisecom(config-port)# **no rate-limit smac none-rate-limit**

[Related commands]

Commands	Description
rate-limit {smac/dmac} none-rate-limit	Enable port none-rate-limit function on SMAC and DMAC basis.
show interface port port_id rate-limit	Show specified port ingress rate limit configuration.

1.6 rate-limit port-list portlist ingress <1-1000000>

[Function]

rate-limit port-list portlist ingress <1-1000000> [arp] [tcp-data] [tcp-ctrl] [udp] [non-udptcp]

Set limit rate of ingress port and rate-limit of specific message type is optional for configuring.

rate-limit port-list portlist ingress <1-1000000> queue-priority {1-4}

Set limit rate of ingress port and rate-limit priority of specific queue.

rate-limit port-list portlist ingress <1-1000000> queue-priority {1-4} {and/or} [arp] [tcp-data] [tcp-ctrl] [udp] [non-udptcp]

set ingress port rate-limit type and queue- priority of and the operation type.

[Command Format]

rate-limit port-list portlist ingress <1-1000000> [arp] [tcp-data] [tcp-ctrl] [udp] [non-udptcp]

rate-limit port-list portlist ingress <1-1000000> queue-priority {1-4}

rate-limit port-list portlist ingress <1-1000000> queue-priority {1-4} {and/or} [arp] [tcp-data] [tcp-ctrl] [udp] [non-udptcp]

[Parameter]

portlist: port list;

arp: arp type message;

tcp-data: tcp data type;

tcp-ctr: tcp control type message;

udp: udp type message;

non-udptcp: contains message type of IGMP (internet group management protocol) and ICMP (internet control message protocol), GRE (general routing encapsulation), IGRP (internal gateway router protocol, internal protocol of cisco), L2TP (layer-2 tunnel protocol).

[Default]

Rate limit for all message types, the limit rate is not exact, default operation type is or.

[Command Modes]

Global configuration mode

[Command Executing Instruction]

Rate limit for specific type of message is invalid if all message rate limit enable.

[Explanation of command execution echo]

Set successfully

Set Unsuccessfully

[Example]

Under global configuration mode, set ingress port 2 rate limit at 1000 and limit type is arp and priority of queue is 3, the operation type is and:

Raisecom(config)# **rate-limit port-list 2 ingress 1000 queue-priority 3 and arp**

[Related commands]

Commands	Description
show interface port <i>port_id</i> rate-limit	Show specified port ingress rate limit configuration.

1.7 rate-limit {smac/dmac} none-rate-limit

[Function]

Enable port none-rate-limit function on SMAC and DMAC basis.

[Command Format]

rate-limit {smac/dmac} none-rate-limit

[Parameter]

smac: source MAC address;

dmac: destination MAC address.

[Default]

Disable this function

[Command Modes]

Port configuration mode

[Command Executing Instruction]

This command is used to enable/disable port none-rate-limit function on SMAC and DMAC basis under port configuration mode.

[Explanation of command execution echo]*Set successfully**Set Unsuccessfully***[Example]**

Enable source MAC none-rate-limit operation of port 2 under port configuration mode:

```
Raisecom(config-port)# rate-limit smac none-rate-limit
```

[Related commands]

Commands	Description
no rate-limit {smac/dmac} none-rate-limit	Disable port none-rate-limit function on SMAC and DMAC basis.
show interface port port_id rate-limit	Show specified port ingress rate limit configuration.

1.8 rate-limit flow-control

[Function]

Enable flow control when rate is too high.

[Command Format]

```
rate-limit flow-control
```

[Default]

Drop mode

[Command Modes]

Port configuration mode

[Command Executing Instruction]

This command is to set mode when port message rate is over threshold under port configuration mode.

[Explanation of command execution echo]*Set successfully**Set Unsuccessfully***[Example]**

Enable flow control mode under port 2 configuration mode:

```
Raisecom(config-port)# rate-limit flow-control
```

[Related commands]

Commands	Description
show interface port port_id rate-limit	Show current configuration of assigned port ingressrate.
no rate-limit flow-control	Disable flow control mode when rate over threshold and change to drop mode.

1.9 show interface port *port_id* rate-limit

[Function]

Show configuration of PIRL.

[Command Format]

show interface port *port_id* rate-limit

[Parameter]

port_id: port ID.

[Command Modes]

Global configuration mode

[Explanation of command execution echo]

```
port:    <port-id>
flow-control: Disable
smac-none-limit-rate: Disable
dmac-none-limit-rate: Disable
session  CIR(kbps)  BA(kBps)  rate-limit-operation  queue-priority  traffic-type
-----
<0-4> <1-1000000>  <value>  <and/or>  <1-4>  <udp/tcp-data/tcp-ctrl/arp/non-udptcp>
```

[Example]

Show rate limit configuration of port 2 under global configuration enable mode:

```
Raisecom# show interface port 2 rate-limit
```

[Related commands]

Commands	Description
rate-limit {smac/dmac}	Enable port none-rate-limit function on smac and dmac basis.
none-rate-limit	
rate-limit flow-control	Enable flow control when rate is too high.
rate-limit port-list <i>portlist</i> ingress <i><1-1000000></i>	Set rate limit port and value.
rate-limit port-list <i>portlist</i> ingress <i><1-1000000> [arp] [tcp-data]</i> <i>[tcp-ctrl] [udp] [non-udptcp]</i>	Set type of rate limit message.
rate-limit port-list <i>portlist</i> ingress <i><1-1000000> queue-priority {1-4}</i>	Set value of ingress rate limit resource and limit rate of specified queue priority.
rate-limit port-list <i>portlist</i> ingress <i><1-1000000> queue-priority {1-4}</i> <i>{and/or} [arp] [tcp-data] [tcp-ctrl]</i> <i>[udp] [non-udptcp]</i>	Set rate limit type and queue priority of ingress port and the operation type of both.



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