

Port Additional Characteristics Configuration Commands

Table of Contents

Chapter 1 Port Security.....	1
1.1 switchport port-security mode static.....	1
1.2 switchport port-security mode dynamic.....	1
1.3 switchport port-security static mac-address.....	1
1.4 switchport port-security dynamic maximum.....	1
Chapter 2 Port Protection.....	2
2.1 switchport protected.....	2
Chapter 3 Port Storm Control.....	3
3.1 storm-control.....	3
Chapter 4 Port Rate Limitation.....	4
4.1 switchport rate-limit.....	4

Chapter 1 Port Security

1.1 switchport port-security mode static

Command description

switchport port-security mode static {accept | reject}

no switchport port-security mode

Set the static mode of the security port.

1.2 switchport port-security mode dynamic

Command description

switchport port-security mode dynamic

no switchport port-security mode

Add/delete the dynamic mode of the security port.

1.3 switchport port-security static mac-address

Command description

switchport port-security static mac-address *mac-addr*

no switchport port-security static mac-address

Configure the static MAC address of the security port.

1.4 switchport port-security dynamic maximum

Command description

switchport port-security dynamic maximum *value*

no switchport port-security dynamic maximum

Add/delete the maximum number of dynamic MAC addresses of the security port.

Chapter 2 Port Protection

2.1 switchport protected

Command description

[no] switchport protected

Configure the port isolation function.

Parameter

None

Default

The port is not isolated.

Explanation

The command must be configured in layer-2 port configuration mode.

Example

Configure port f0/1 not to forward the unknown unicast frame.

```
Switch(config)# interface fastethernet0/1
```

```
Switch(config-if)# switchport protected
```

Chapter 3 Port Storm Control

3.1 storm-control

Command description

Configure the storm control function of the port.

storm-control {**broadcast** | **multicast** | **unicast**} **threshold** *count*

no storm-control {**broadcast** | **multicast** | **unicast**} **threshold** *count*

Parameter

Parameter	Description
broadcast multicast unicast	Defines the storm control of the broadcast, multicast and unicast.
threshold <i>count</i>	Defines the flow percent of the storm control. The count parameter defines the flow caps that lead to the storm. <1-127>, n*64Kbps(n<=28);(n-27)Mbps(n>28)

Default

The storm control function is not enabled.

Explanation

The command must be configured in layer-2 port configuration mode.

Example

Set the storm control of the unknown unicast frame on port f0/1 to 192 Kbps.

```
Switch(config)# interface fastethernet0/1
Switch(config-f0/1)# storm-control unicast threshold 3
```

Chapter 4 Port Rate Limitation

4.1 switchport rate-limit

Command description

```
[no] switchport rate-limit band { ingress|egress}
```

Configure the flow rate limitation for the port.

Parameter

Parameter	Description
<i>Band</i>	Flow rate n*64Kbps(n<=28); (n-27)Mbps(n>28)
ingress	Functions at the incoming port.
egress	Functions at the outgoing port.

Default

The port has no port rate limitation.

Explanation

Layer-2 port configuration mode

Example

Set the incoming flow rate limitation on port f0/1 to 1M.

```
Switch(config)# interface f0/1  
Switch(config-if)# switchport rate-limit 28 ingress
```