

Interface Additional Characteristic Configuration

Table of Contents

1	Interface Security.....	- 1 -
1.1	Configure the Number of Secure MAC Addresses for the Security Port.....	- 1 -
1.2	Configure the Static MAC Address of the Secure Port.....	- 1 -
2	Port Protection.....	- 3 -
3	Port Storm Control.....	- 4 -
4	Port Speed Limit.....	- 5 -

1 Interface Security

1.1 Configure the Number of Secure MAC Addresses for the Security Port

The number of secure port secure MAC addresses is the maximum number of MAC addresses that can be learned on the port where the security function is enabled. A packet with a source MAC address exceeding that number can cause a security port violation. The default value is 1.

Enter the management mode, and then follow the steps below to configure the number of secure port MAC addresses.

Command	Description
configure	Enter global configuration mode.
interface f0/1	Enter the interface configuration mode.
[no] switchport port-security maximum <i>value</i>	Specify/cancel the maximum MAC address number. Value is the maximum MAC address number.
exit	Back to the global configuration mode.
exit	Back to the configuration mode.
write	Save the configuration.

1.2 Configure the Static MAC Address of the Secure Port

After the static MAC address of the security port is configured, if the MAC address of the port is the configured static MAC address, the packet does not generate a security violation.

Enter the management mode, and then follow the steps below to configure the static MAC address of the security port.

Command	Description
configure	Enter global configuration mode.

interface f0/1	Enter the interface configuration mode.
[no] switchport port-security mac-address <i>mac-addr</i>	Add/cancel the maximum MAC address number. <i>Mac-addr</i> is the maximum MAC address number.
exit	Back to the global configuration mode.
exit	Back to the configuration mode.
write	Save the configuration.

2 Port Protection

Normally, the packet between the different ports of the switch can be free to forward. In some cases, the flow between ports needs to be forbid. Port isolation is to provide this control. The ports with port isolation function cannot transfer the packet with each other, but the other port can still transfer the packet with each other normally.

Command	Description
switchport protected	Set port isolation.
no switchport protected	Cancel port isolation.

3 Port Storm Control

The switch port may suffer from persistent, abnormal unicast (MAC address lookup failure), multicast or broadcast packet impact which result the paralysis of the port or even the entire switch. So a mechanism must be provided to suppress this phenomenon.

Command	Description
storm-control {broadcast multicast unicast} threshold count	Storm control of broadcast, multicast, or unicast packets.
no storm-control {broadcast multicast unicast} threshold	No storm control

4 Port Speed Limit

Limit the traffic rate of the port import and export by following configuration.

In privileged mode, use the following command to limit the traffic rate of the port.

Command	Description
configure	Enter global configuration mode.
interface f1/0	Enter the interface configuration mode.
[no] switchport rate-limit <i>band</i> { ingress egress}	Configure the traffic rate limit for the port. band is the traffic rate to be limited. ingress indicates working on the entry; egress indicates working on the exit.
exit	Back to the global configuration mode.
exit	Back to the configuration mode.