MAC Access-List Configuration

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Chapter 1 MAC Access-List Configuration

Access-list configuration includes:

- Create MAC access-list
- Configuring items of MAC access-list
- Applying MAC access-list

1.1 Create MAC access-list

A MAC access-list must be created first before applying it on the port. When a MAC access-list has been created, it enters MAC access-list configuration mode, under which items of MAC access-list can be configured.

Enter privilege mode and use the following steps to add or delete a MAC access-list.

Command	Purpose
config	Enters the global configuration mode.
[**no**] **mac access-list** *name*	To add or cancel a MAC access list, run the following command. name stands for the name of theMACaccess list.

1.2 Configuring items of MAC access-list

In MAC access-list configuration mode, specify to permit or deny any source MAC address or a specific host source MAC address and any destination MAC address. The same items can be configured in a MAC access list only once.

Enter MAC access list configuration mode and use the following steps to set MAC access list entry.

Command	Purpose
[**no**] {**permit** | **deny**} {**any** | **host** *src-mac-addr* | *src-mac-addr src-mac-mask* } {**any** | **host** *dst-mac-addr* | *dst-mac-addr dst-mac-mask*}[**arp** [{*any* | *src-ip-addr*} {*any* | *dst-ip-addr* }] | *ethertype*]	To add/delete aMAC access list entry, run the previous command. You can repeat this command to add/delete multiple MAC access list entry. any means match with any MAC address; src-mac-addr stands for source MAC address; *src-mac-mask stands for source mac mask;* dst-mac-addr stands for destination MAC address; *dst-mac-mask* stands for destination mac mask;

	arp stands for matched arp packet; src-ip-addr stands for source ip address stands for source ip address dst-ip-addr stands for the destination ip address ethertype stands for type of the matched Ethernet packet
exit	Log out from the MAC list configuration mode and enter the global configuration mode again.
exit	Goes back to the EXEC mode.
write	Saves the settings.

MAC list configuration example

Switch_config#mac access-list 1
Switch-config-macl#permit host 1.1.1 any
Switch-config-macl#permit host 2.2.2 any

The above configuration is to compare the source MAC address, so the mask is the same. The configuration is successful.

1.3 Applying MAC access-list

The created MAC list can be applied on any physical port. Only one MAC list can be applied to a port. The same MAC list can be applied to multiple ports.Enter the privilege mode and perform the following operation to configure the MAC list.

Enter the privilege mode and perform the following operation to configure the MAC list.

Command	Purpose
config	Enters the global configuration mode.
interface g0/1	Enters the to-be-configured port.
[**no**] **mac access-group** *name* [**vlan** {*word* | **add** *word* | **remove** *word*}]	Apply the created MAC list to the port or delete the applied MAC list from the port.name means the name of the MAC list. NameMAC: Name of the MAC access list **Vlan** THE ACCESS LIST IS APPLIED IN INGRESS. WordVLAN RANGE TABLE **Add**ADD VLAN RANGE TABLE Remove Delete vlan range table
exit	Goes back to the global configuration mode.
exit	Goes back to the EXEC mode.
write	Saves the settings.