MAC Access-List Configuration

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Chapter 1 MAC Access-List Configuration

Access-list configuration includes:

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1.1 Creating 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 previous 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* |*cos value*]	To add/delete a MAC 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 the 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 **dst-ip-addr** stands for the destination IP address **ethertype** stands for type of the matched Ethernet packet **cos value** stands for packet header marking.
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*	Apply the created MAC list to the port or delete the applied MAC list from the port. NameMAC: Name of the MAC access list
exit	Goes back to the global configuration mode.
exit	Goes back to the EXEC mode.
write	Saves the settings.