

MAC Access-List Configuration

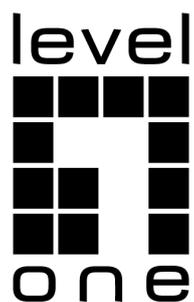


Table of Contents

MAC Access-List Configuration	I
Table of Contents	II
Chapter 1 MAC Access-List Configuration	1
1.1 Creating MAC Access-List.....	1
1.2 Configuring Items of MAC Access-List	1
1.3 Applying MAC Access-List.....	2
1.4 Applying MAC Access-List.....	2
1.5 Display MAC Access List.....	3
1.6 View MAC Access List Statistics	3

Chapter 1 MAC Access-List Configuration

Access-list configuration includes:

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

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 the MAC access 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}[ip arp [{any src-ip-addr} {any dst-ip-addr }] ethertype cos cos_value location locat_num]	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;

	<p>ip stands for matched ip packet</p> <p>arp stands for matched arp packet</p> <p>src-ip-addr stands for source ip address</p> <p>dst-ip-addr stands for the destination IP address</p> <p>ethertype stands for type of the matched Ethernet packet.</p>
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 00:00:00:00:00:01 any
Switch(config-macl)#permit host 00:00:00:00:00:02 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 g0/0/1	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.

1.4 Applying MAC Access-List

The created MAC list can be applied on any physical port or global mode. Only one MAC list can be applied to a port or globally. The same MAC list can be applied to multiple ports.

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

Command	Purpose
config	Enters the global configuration mode.
interface g0/0/1	Enters the to-be-configured port.
[no] mac access-group name	Apply the created MAC list to the port or globally, or delete the applied MAC list from the port or globally. 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.

1.5 Display MAC Access List

Displays all or specified mac access lists

Command	Purpose
show mac access-list [name]	Displays all or specified mac access lists. name stands for the name of the MAC access list.

1.6 View MAC Access List Statistics

View MAC Access List Statistics:

Command	Purpose
show mac access-group name { vlan interface interface-name} [egress]	Display mac access list statistics. name stands for the name of the MAC access list. Interface-name is the port name.