MAC Access Configuration Commands
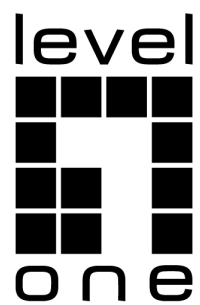
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Chapter 1 MAC Address Configuration Commands

1.1 MAC Address Configuration Commands

1.1.1 mac address-table static

Syntax

To add/delete a static MAC address, use the **mac address-table static** command.

[**no**] **mac address-table static** *mac-addr* **vlan** *vlan-id* **interface** *interface-id*

Parameters

Parameter	Description
mac-addr	MAC address. Value range: AA:BB:CC:DD:EE:FF.
vlan-id	Vlan id of the MAC address, in the range from 1 to 4094.
interface-id	Interface id of the MAC address.

Default

None

Command Mode

Global configuration mode

Example

The following example binds the MAC address 00:04:56:00:67:ab to the interface g0/0/2 of VLAN 1:

Switch(config)# mac address-table static 00:04:56:00:67:ab vlan 1 interface g0/0/2

1.1.2 mac address-table aging-time

Syntax

To configure the maximum aging time for MAC address table.

mac address-table aging-time [**0** | **10-1000000**]

Parameters

Parameter	Description
0	The aging time for MAC address table is disabled.
10-1000000	The aging time (in seconds) for MAC address table. 300s by default.

Default

300s

Command Mode

Global configuration mode

Example

The following example configures the aging time for MAC address table to 100 seconds:

Switch(config)# mac address-table aging-time 100

1.1.3 show mac address-table

Syntax

To display the content of the switch MAC address table, use the **show mac address-table** command.

show   mac address-table [dynamic [interface *interface-id* | **vlan** *vlan-id*] | **static | brief | multicast | interface** *interface-id* | **vlan** *vlan-id* | **mac** *AA:BB:CC:DD:EE:FF* | **blackhole]**

Parameters

Parameter	Description
dynamic	The dynamic MAC address table.
interface-id	Interface name
vlan-id	VLAN ID, in the range from 1 to 4094.
static	The static MAC address table.
brief	Brief information of Mac address
multicast	Multicast of mac address table
Interface	Interface of mac address table
Vlan	Mac address table in VLAN
mac	Specific address
blackhole	Blackhole of mac address table

Default

None

Usage Guidelines

The command is used to display MAC address table.

Example

The following example displays all dynamic MAC address tables:

Switch(config)#show mac address-table

Mac Address Table (Total 2)

Vlan	Mac Address	Type	Ports
1	00:26:5a:7c:fa:d3	DYNAMIC	g0/0/24
1	00:00:00:00:00:04	DYNAMIC	g0/0/24

1.1.4 clear mac address-table

Syntax

To delete a dynamic MAC address, use the **clear mac address-table**

clear mac address-table dynamic [**address** *mac-addr* | **interface** *interface-id* | **vlan** *vlan-id*]

Parameter

Parameter	Description
address mac-addr	The MAC address. Value range: AA:BB:CC:DD:EE:FF.
interface-id	Layer 2 interface name.
vlan-id	VLAN ID, in the range from 1 to 4094.

Default

None

Command Mode

Use the command in the management mode.

Example

The following example deletes all MAC addresses that acquire dynamically on interface g0/0/2:

Switch# clear mac address-table dynamic interface g0/0/2