

MAC Address Table Characteristics Configuration Commands



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Chapter 1 MAC Address Table Characteristics Configuration Commands

1.1 MAC Address Table Characteristic Configuration Commands

1.1.1 Mac address-table static

Description

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*

Parameter

parameter	description
<i>mac-addr</i>	MAC address. Value format: H.H.H.
<i>vlan-id</i>	Vlan id of the MAC address, in the range from 1 to 4094.
<i>interface-id</i>	Interface id of the MAC address.

Default

none

Command mode

global configuration

Example

The following example binds the MAC address 0004.5600.67ab to the interface g0/2 of VLAN 1:

```
Switch(config)# mac address-table static 0004.5600.67ab vlan 1 interface g0/2
```

1.1.2 Mac address-table aging-time

Description

To configure the maximum aging time for MAC address table, use the **mac-address-table aging-time** command in global configuration mode.

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

Parameter

parameter	description
0	The aging time for MAC address table is disabled.
10-1000000	The aging time for MAC address table. Valid values are from 10

	to 1000000 seconds.
--	---------------------

Default

none

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**Description**

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}

Parameter

parameter	description
dynamic	The MAC address table that acquires dynamically.
<i>interface-id</i>	Interface name
<i>vlan-id</i>	VLAN ID, in the range from 1 to 4094.
static	The static MAC address table.

Default

none

Instruction

Use this command to display MAC address table.

Example

The following example displays all static MAC address tables:

```
Switch# show mac address-table static
```

```
Mac Address Table
```

```
-----
```

```
Vlan Mac Address Type Ports
```

```
----
```

```
All 0000.0000.0001 STATIC CPU
```

All 0000.0000.0002 STATIC CPU
All 0000.0000.0003 STATIC CPU
All 0000.0000.0009 STATIC CPU
All 0000.0000.0012 STATIC CPU
All 0180.c200.000b STATIC CPU
All 0180.c200.000c STATIC CPU
All 0180.c200.000d STATIC CPU
All 0180.c200.0010 STATIC CPU

1.1.4 Clear mac address-table

Description

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
dynamic	The dynamic MAC address
<i>address mac-addr</i>	The MAC address. Value range: H.H.H.
<i>interface-id</i>	Layer 2 interface name.
<i>vlan-id</i>	VLAN ID, in the range from 1 to 4094.

Default

none

Command mode

EXEC

Example

The following example deletes all MAC addresses that acquire dynamically on interface f0/2:

Switch# clear mac address-table dynamic interface f0/2