

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
mac-addr	MAC address. Value format: H.H.H.
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

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 switchport shared-learning

description

To configure VLAN to share MAC address, use the switch shared-learning command.

switchport shared-learning

parameter

none

default

disabled

command mode

interface configuration mode

example

The following example configures all Vlan to share MAC address on interface f0/1:

```
Switch_config_f0/1#switchport shared-learning
```

1.1.4 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.
interface-id	Interface name
vlan-id	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
```

1.1.5 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
address mac-addr	The MAC address. Value range: H.H.H.
interface-id	Layer 2 interface name.
vlan-id	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
```