

MAC Address Configuration Commands

Table of Contents

Chapter 1 MAC Address Configuration Commands.....	1
1.1 MAC Address Configuration Commands.....	1
1.1.1 mac address-table static	1
1.1.2 mac address-table aging-time	1
1.1.3 show mac address-table	2
1.1.4 clear mac address-table	3

Chapter 1 MAC Address Configuration Commands

1.1 MAC Address Configuration Commands

1.1.1 mac address-table static

Syntax

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

To add a static MAC address, run **mac address-table static** *mac-addr* **vlan** *vlan-id* **interface** *interface-id*. To cancel the static MAC address, run **no mac address-table static** *mac-addr* **vlan** *vlan-id* **interface** *interface-id*.

Parameter

Parameter	Description
<i>mac-addr</i>	Means an MAC address. Value range: H.H.H
<i>vlan-id</i>	A VLAN that the MAC address belongs to Value range: 1-4094
<i>interface-id</i>	Physical port that the MAC address belongs to

Default value

N/A

Explanation

This command is configured in global configuration mode.

Example

The following example shows how to bind MAC address 001F.CE00.67ab to port G0/2 of VLAN1.

```
Switch_config# mac address-table static 001F.CE00.67ab vlan 1 interface g0/2
```

1.1.2 mac address-table aging-time

Syntax

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

To configure the aging time of the MAC address table, run the previous command.

Parameter

Parameter	Description
0	Means that the MAC address never ages.
10-1000000	Aging time of the MAC address whose unit is second

Default value

300s.

Explanation

This command is configured in global configuration mode.

Example

The following example shows how to set the aging time of the MAC address to 100 seconds.

```
Switch_config# mac address-table aging-time 100
```

1.1.3 show mac address-table

Syntax

show mac address-table [**dynamic** [**interface** *interface-id* | **vlan** *vlan-id*] | **static** | **brief** | **multicast** | **interface** *interface-id* | **vlan** *vlan-id* | **H.H.H**]

To display the MAC address table of the switch, run **show mac address-table** {**dynamic** [**interface** *interface-id* | **vlan** *vlan-id*] | **static** | **brief** | **multicast** | **interface** *interface-id* | **vlan** *vlan-id* | **H.H.H**}.

Parameter

Parameter	Description
dynamic	Dynamically-learned MAC address table
<i>interface-id</i>	Name of an interface
<i>vlan-id</i>	VLAN ID。 Value range: 1-4094
static	Static MAC address table
brief	Brief information about the MAC address
multicast	Multicast MAC address table
Interface	Port's MAC address table
Vlan	Vlan mac address table

H.H.H	Specific address
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Default value

N/A

Explanation

This command is used to display the MAC address table.

Example

The following example shows how to display all dynamic MAC address tables. Switch_config#show mac address-table

```

Mac Address Table (Total 2)
-----
Vlan    Mac Address      Type    Ports
----    -
1       0026.5a7c.fad3   DYNAMIC g0/24
1       0000.0000.0004   DYNAMIC g0/24

```

1.1.4 clear mac address-table

Syntax

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

To delete a dynamic MAC address, run the above-mentioned command:

Parameter

Parameter	Description
<i>address mac-addr</i>	Means an MAC address. Value range: H.H.H
<i>interface-id</i>	Means a name of a L2 interface.
<i>vlan-id</i>	VLAN ID. Value range: 1-4094

Default value

N/A

Remarks

This command is used in EXEC mode.

Example

The following example shows how to clear all dynamically learned MAC addresses on interface g0/2.

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