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## MAC Address 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

**[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 0004.5600.67ab to port G0/2 of VLAN1.

```
Switch_config# mac address-table static 0004.5600.67ab 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
<b>0</b>	Means that the MAC address never ages.
<b>10-1000000</b>	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
<b>dynamic</b>	Dynamically-learned MAC address table
<i>interface-id</i>	Name of an interface
<i>vlan-id</i>	VLAN ID。 Value range: 1-4094
<b>static</b>	Static MAC address table
<b>brief</b>	Brief information about the MAC address
<b>multicast</b>	Multicast MAC address table
<b>Interface</b>	Port's MAC address table
<b>Vlan</b>	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
```