



## Configuration

Related products: S2928F, S3700 Series, S5612, S5800 Series, S8500 Series, S9500 Series

## 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 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 |
|-------|------------------|

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
```