

# SNR-S2970G-48S MAC Address Table Characteristics Configuration Commands

## Table of Contents

Chapter 1 MAC Address Table Characteristics Configuration Commands .....	1
1.1 MAC Address Table Characteristic 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 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
<b>0</b>	The aging time for MAC address table is disabled.
<b>10-1000000</b>	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
<b>dynamic</b>	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.
<b>static</b>	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
```