

# Configure a Static MAC Address on the Sx500 and SG500X Series Stackable Switches through the CLI

## Introduction

A Medium Access Control (MAC) address is a unique data link layer address assigned to a network device. A switch which is the data link layer device maintains a MAC address table to forward frames to a destination port. The MAC address table entries on the switch are built either statically or dynamically.

In this scenario, a static MAC address is configured on one of the ports that belongs to VLAN 1 on the switch through the Command Line Interface (CLI).

## Objective

The objective of this document is to show you how to configure a static MAC address on the Sx500 and SG500X Series Stackable Switches through the CLI.

## Applicable Devices

- Sx500 Series
- SG500X Series

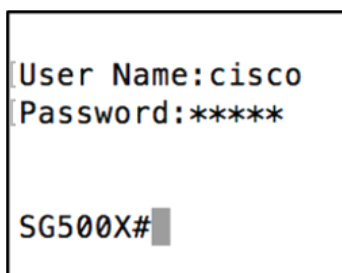
## Software Version

- 1.4.8.06

## Configure Static MAC Address

**Note:** Images may slightly vary depending on the exact model of the device you are using. The images below are taken from the SG500X-48MP switch.

Step 1. Log in to the CLI of the switch and enter your username and password for the device.



**Note:** The default username and password is cisco/cisco. In this example, the default User Name is cisco, and a personal password is used.

Step 2. In the CLI, enter the global configuration command mode by entering the following:

```
SG500X#configure terminal
```

```
[User Name:cisco  
[Password:*****
```

```
SG500X#configure terminal
```

Step 3. Once on the global configuration mode, enter the command to specify a static MAC address to add to the MAC address table by entering the following:

```
SG500X (config) #mac address-table static c8:0a:a9:73:b0:a1 vlan 1 interface ge 1/1
```

```
[User Name:cisco  
[Password:*****
```

```
[SG500X#configure terminal
```

```
[SG500X(config)#$table static c8:0a:a9:73:b0:a1 vlan 1 interface ge 1/1  
SG500X(config)#
```

**Note:** In this example, the MAC address c8:0a:a9:73:b0:a1 for port GE 1/1 in vlan 1 is entered. The image above shows only the shortened version of the command indicated by a \$ due to character length limitation on the CLI.

Step 4. Exit the global configuration mode by entering the following:

```
SG500X (config) #exit
```

```
[User Name:cisco  
[Password:*****
```

```
[SG500X#configure terminal
```

```
[SG500X(config)#$table static c8:0a:a9:73:b0:a1 vlan 1 interface ge 1/1  
[SG500X(config)#exit  
SG500X#
```

Step 5. Check the MAC address table to verify the entered static MAC address by entering the following:

```
SG500X#show mac address-table
```

```
[User Name:cisco  
[Password:*****
```

```
[SG500X#configure terminal
```

```
[SG500X(config)#$table static c8:0a:a9:73:b0:a1 vlan 1 interface ge 1/1  
[SG500X(config)#exit  
SG500X#show mac address-table
```

The MAC address table should now show the configured static MAC address in the specified vlan and port.

Vlan	Mac Address	Port	Type
1	00:eb:d5:5e:09:40	gi1/1/46	dynamic
1	10:60:4b:70:97:07	gi1/1/4	dynamic
1	28:f0:76:2a:21:92	gi1/1/8	dynamic
1	40:a6:e8:e6:f4:d3	gi1/1/5	dynamic
1	40:a6:e8:e6:f4:d4	gi1/1/9	dynamic
1	40:a6:e8:e6:f4:d5	gi1/1/5	dynamic
1	40:a6:e8:e6:f4:d7	gi1/1/9	dynamic
1	40:a6:e8:e6:f4:ed	gi1/1/9	dynamic
1	80:e8:6f:0a:51:9e	gi1/1/3	dynamic
1	80:e8:6f:0a:5d:ee	gi1/1/8	dynamic
1	80:e8:6f:0c:a7:50	gi1/1/1	dynamic
1	c0:7b:bc:12:cc:de	0	self
1	c8:0a:a9:73:b0:a1	gi1/1/1	static
1	ec:bd:1d:44:74:53	gi1/1/9	dynamic

Step 6. (Optional) To permanently save your settings, enter the following:

```
SG500X# copy running-config startup-config
```

```
SG500X#copy running-config startup-config
```

Step 7. Enter Y in the Overwrite file prompt to indicate Yes and to save the settings to the startup configuration file.

```
Overwrite file [startup-config].... (Y/N) [N] ? Y
```

```
SG500X#copy running-config startup-config
Overwrite file [startup-config].... (Y/N) [N] ?Y
```

The page will then confirm that copying the running configuration to the startup configuration is successful.

```
SG500X#copy running-config startup-config
Overwrite file [startup-config].... (Y/N) [N] ?Y
10-Jul-2017 20:59:01 %COPY-I-FILECPY: Files Copy - source URL running-config destination URL
10-Jul-2017 20:59:09 %COPY-N-TRAP: The copy operation was completed successfully
Copy succeeded
SG500X#
```

You now have successfully configured a static MAC address on the Sx500 and SG500X switch through the CLI.