

Backup and Restore or Swap Firmware on a Switch

Objective

The firmware is the program that controls the operation and functionality of the switch. It is the combination of software and hardware that has program code and data stored in it in order for the device to function.

Creating a firmware backup is useful if for any reason you want to restore the inactive or previous firmware after updating to the latest version or vice versa.

The objective of this document is to show you how to backup and restore or swap the firmware on your switch.

Applicable Devices

- Sx250 Series
- Sx350 Series
- SG350X Series
- Sx550X Series

Software Version

- 2.2.0.66

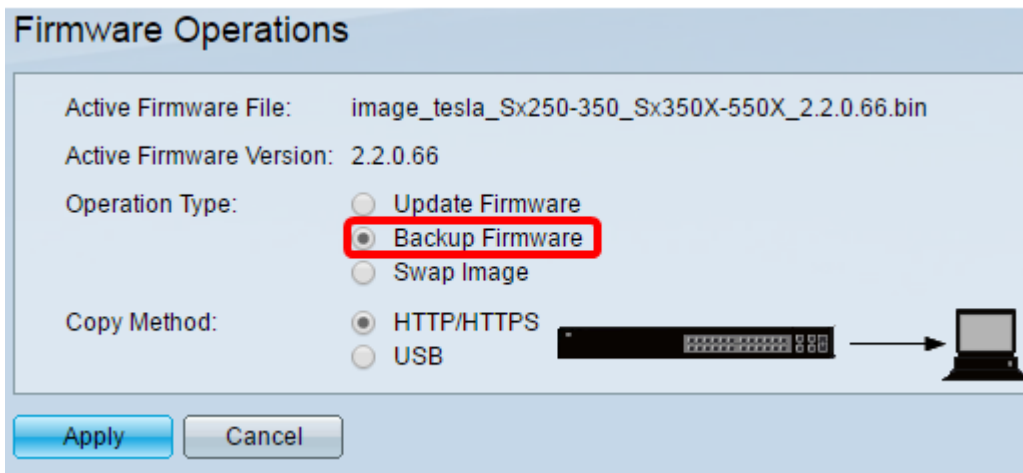
Backup and Restore or Swap Firmware

Backup Firmware

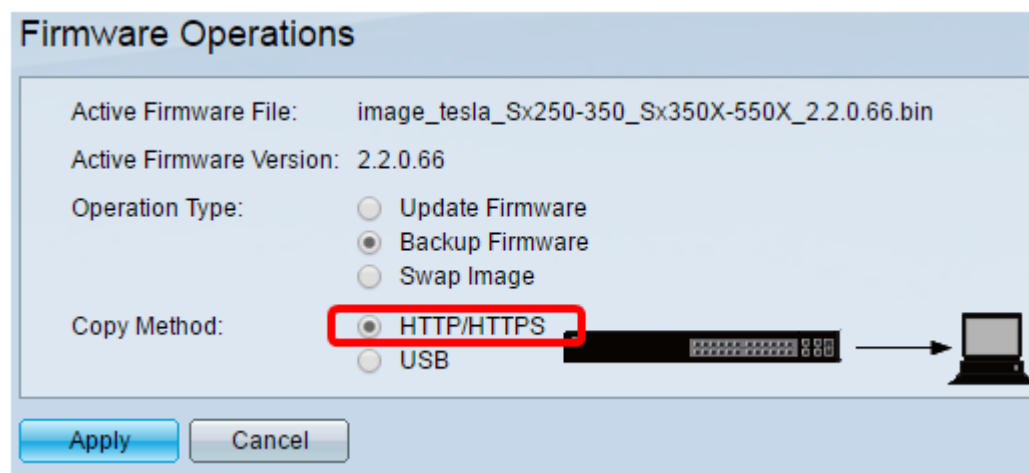
Step 1. Log in to the web-based utility of the switch and choose **Administration > File Management > Firmware Operations**.



Step 2. Click the **Backup Firmware** radio button as the Operation Type.

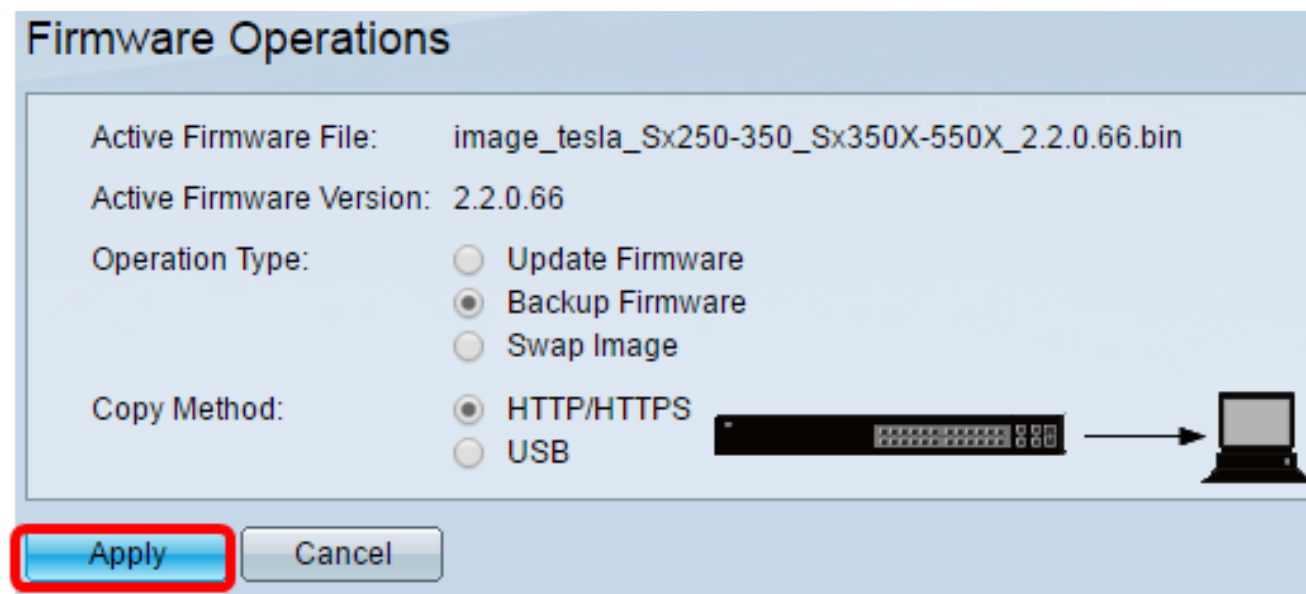


Step 3. Click the **HTTP/HTTPS** radio button as the Copy Method.

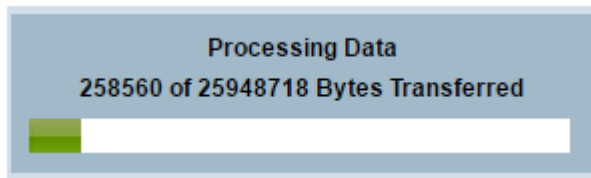


Note: Choose **USB** if you would like to copy the firmware to a USB flash drive.

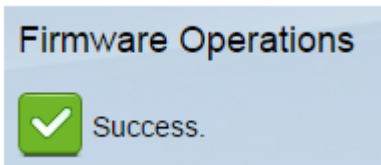
Step 4. Click **Apply**.



A progress bar will then appear showing the progress of the backup process.



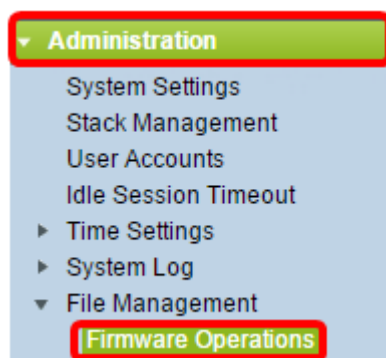
When the process has been completed, the progress bar disappears and the screen will then indicate with a check mark that the backup process is successful.



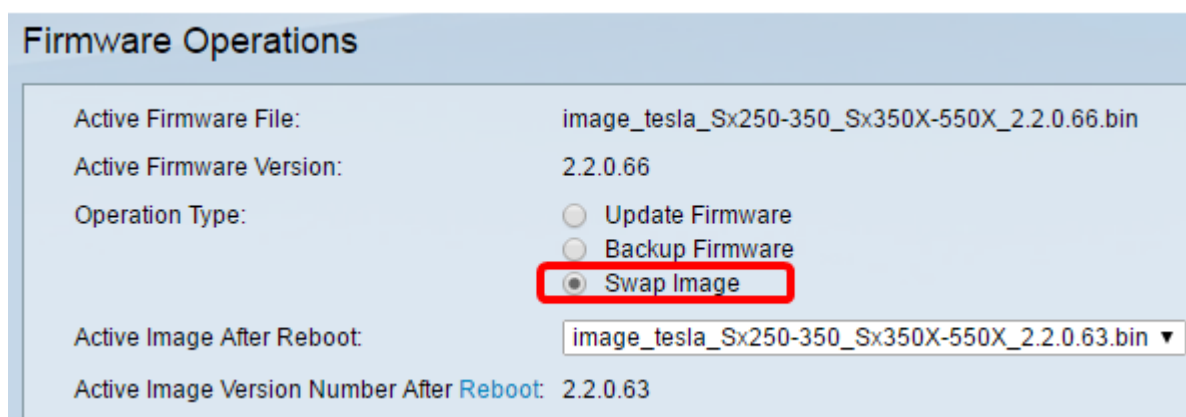
Restore or Swap the Firmware

Important: Before you proceed, make sure you have downloaded the firmware version that you wish to restore or swap with from the [Cisco website](#).

Step 1. In the web-based utility, choose **Administration > File Management > Firmware Operations**.



Step 2. Click **Swap Image**.



Step 3. Check and verify the Active Firmware Version. This is the current firmware your device is using.

Firmware Operations

Active Firmware File:	image_tesla_Sx250-350_Sx350X-550X_2.2.0.66.bin
Active Firmware Version:	2.2.0.66
Operation Type:	<input type="radio"/> Update Firmware <input type="radio"/> Backup Firmware <input checked="" type="radio"/> Swap Image
Active Image After Reboot:	image_tesla_Sx250-350_Sx350X-550X_2.2.0.63.bin ▼
Active Image Version Number After Reboot:	2.2.0.63

Step 4. Choose the firmware version that you want to restore on the switch from the Active Image after Reboot drop-down list.

Firmware Operations

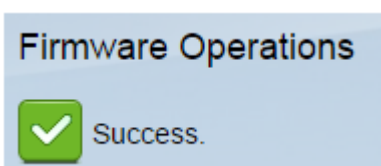
Active Firmware File:	image_tesla_Sx250-350_Sx350X-550X_2.2.0.66.bin
Active Firmware Version:	2.2.0.66
Operation Type:	<input type="radio"/> Update Firmware <input type="radio"/> Backup Firmware <input checked="" type="radio"/> Swap Image
Active Image After Reboot:	image_tesla_Sx250-350_Sx350X-550X_2.2.0.63.bin ▼
Active Image Version Number After Reboot:	2.2.0.63

Step 5. Click **Apply**.

Firmware Operations

Active Firmware File:	image_tesla_Sx250-350_Sx350X-550X_2.2.0.66.bin
Active Firmware Version:	2.2.0.66
Operation Type:	<input type="radio"/> Update Firmware <input type="radio"/> Backup Firmware <input checked="" type="radio"/> Swap Image
Active Image After Reboot:	image_tesla_Sx250-350_Sx350X-550X_2.2.0.63.bin ▼
Active Image Version Number After Reboot:	2.2.0.63

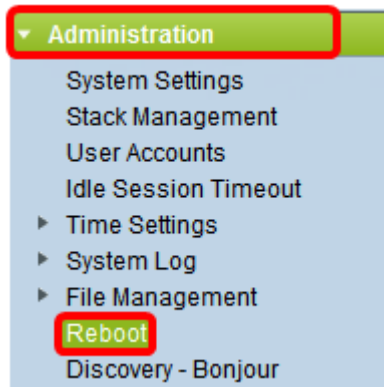
When the process has been completed, the screen will then indicate with a check mark that the process is successful.



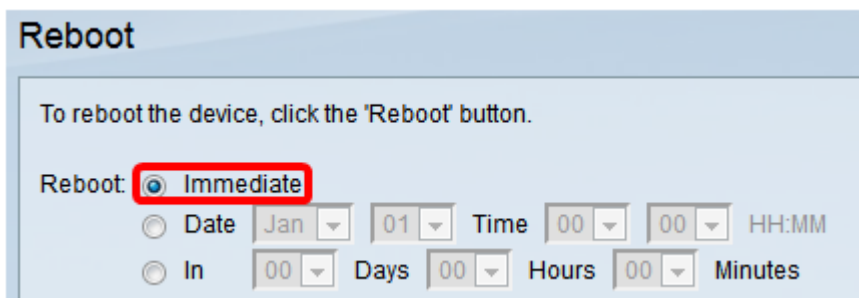
Reboot the Switch

For the restored firmware version to be applied, the switch must be rebooted.

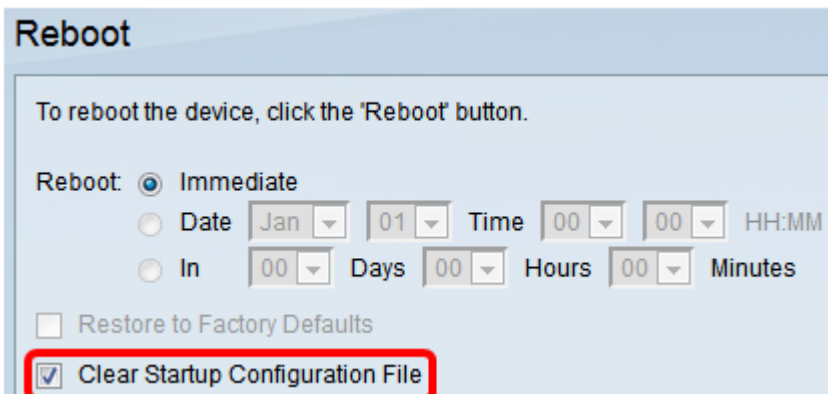
Step 1. In the web-based utility, choose **Administration > Reboot**.



Step 2. Click **Immediate**.



Step 3. (Optional) Check the **Clear Startup Configuration File** check box to delete the startup configuration once the switch is rebooted. With this option chosen, the switch essentially performs a factory default reset since both the running and startup configurations will be deleted on reboot.



Step 4. Click **Reboot**.

Reboot

To reboot the device, click the 'Reboot' button.

Reboot: Immediate
 Date Time HH:MM
 In Days Hours Minutes

Restore to Factory Defaults
 Clear Startup Configuration File

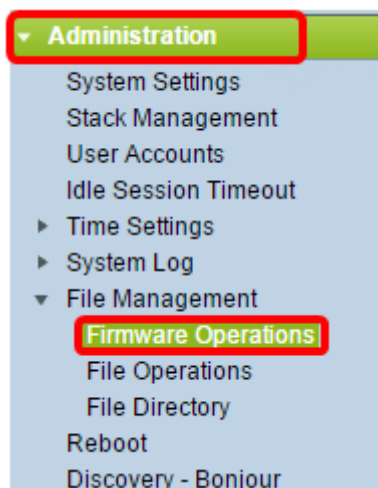
Reboot Cancel Reboot Cancel

The switch will then reboot. This process may take a few minutes.

Verify the Active Firmware

To verify if the firmware has been successfully restored:

Step 1. In the web-based utility, choose **Administration > File Management > Firmware Operations**.



Step 2. Check the Active Firmware Version to verify if the firmware has been successfully restored to the switch.

Firmware Operations

Active Firmware File: image_tesla_Sx250-350_Sx350X-550X_2.2.0.63.bin

Active Firmware Version: 2.2.0.63

Operation Type: Update Firmware
 Backup Firmware
 Swap Image

Copy Method: HTTP/HTTPS
 USB

You should now have successfully backed up and restored the firmware of your switch.