Upgrade the Firmware on the WAP125

Objective

New firmware releases are improvements from previous firmware versions. Network device performance can be enhanced when an upgrade is made. Firmware files can be downloaded through:

- Trivial File Transfer Protocol (TFTP) — A User Datagram Protocol (UDP) file transfer protocol typically used to distribute software upgrades and configuration files. When using the TFTP client, the file will be downloaded from a TFTP server.
- Hypertext Transfer Protocol/with Secure Sockets (HTTP/HTTPS) — A protocol that uses your web browser to transfer the file.

This document explains how to swap and upgrade the firmware on the WAP125 through an HTTP/HTTPS client or TFTP server.

Tip: When you are upgrading firmware, it is recommended to use a wired connection on your computer to avoid interruption during the upgrade process.
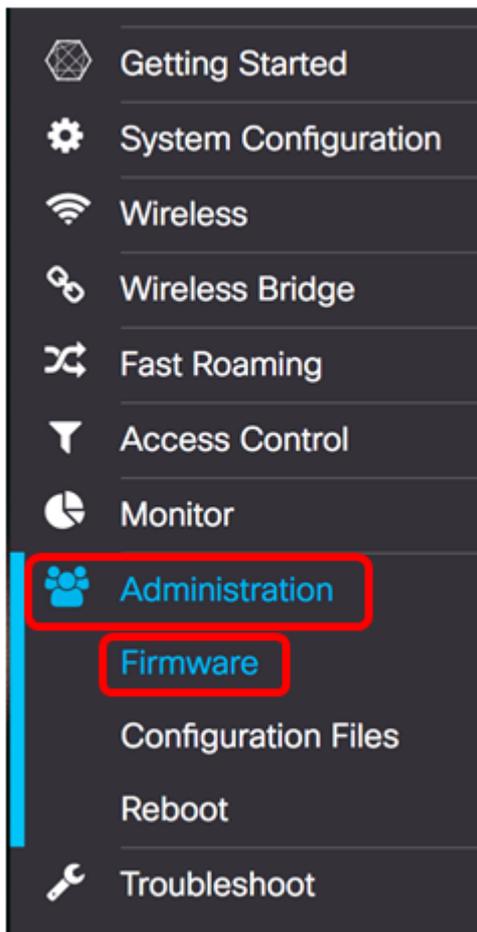
Applicable Devices

- WAP125

Software Version

- 1.0.0.4

Upgrade the Firmware

Note: Before starting the upgrade process, make sure you have downloaded the latest firmware of your device from the Cisco website. To check for the latest updates, click here.

Step 1. Log in to the web-based utility of the WAP and choose **Administration > Firmware**.

The Firmware area is described as follows:

- PID VID — Displays the product ID and vendor ID of the access point.
- Active Firmware Version — Displays the current firmware version.
- Firmware MD5 Checksum (Active Image) — A 32-character hexadecimal number or a 128-bit encryption method. The MD5 algorithm uses a public cryptosystem to encrypt

data.

- Inactive Firmware Version — When the firmware is upgraded, the previous version is saved as an Inactive Firmware Version.
- Firmware MD5 Checksum (Non-active) — Secondary 32-character hexadecimal number or a 128-bit encryption method. The MD5 algorithm uses a public cryptosystem to encrypt data.

Step 2. In the Download Method area, choose a radio button to determine the method at which the download will be obtained. The options are:

- HTTP/HTTPS — If this is chosen, proceed to the Upgrade through HTTP/HTTPS.
- TFTP — If this is chosen, proceed to the Upgrade through TFTP Server.

Note: In this example, HTTP/HTTPS is chosen.
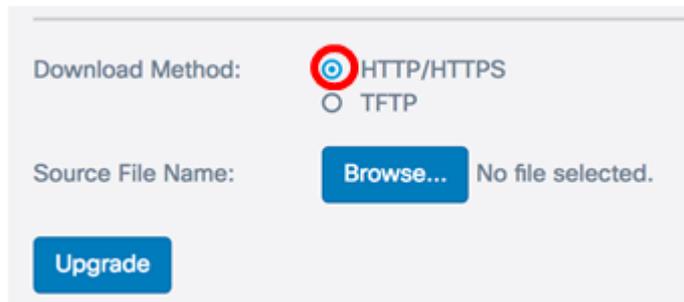
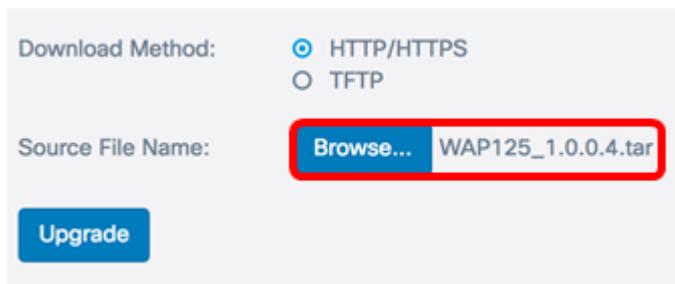## Upgrade through HTTP/HTTPS

Step 3. Click **Browse…** to obtain the file for upgrading. The firmware upgrade file supplied must be a .tar file. Do not attempt to use .bin or other file formats for the upgrade as these types of files do not work. The file name cannot contain spaces, and special characters.
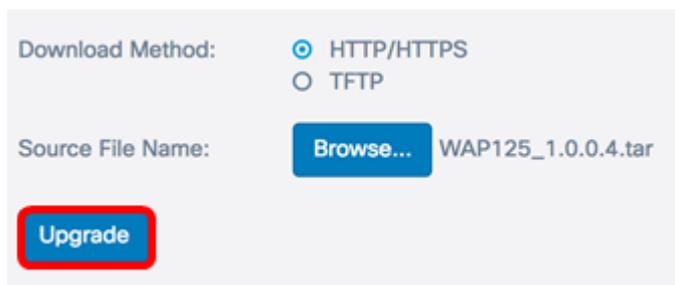
Note: In this example, WAP125_1.0.0.4.tar is chosen.

Step 4. Click **Upgrade** to apply the new firmware.

A progress bar will appear above the **Upgrade** button together with a note informing you that uploading the new firmware may take several minutes.

Once the firmware has been uploaded to the WAP, the page changes and displays a series of instructions as the device reboots.

Step 5. Once the WAP has rebooted, log back in to the web-based utility and choose **Administration > Firmware** to verify the new firmware version.

The Active Firmware Version should now show the latest firmware version.

You should now have successfully upgraded the WAP125 through HTTP/HTTPS.

Upgrade through TFTP Server

Step 3. In the *Source File Name* field, enter the name of the source file to be uploaded to the WAP. The firmware upgrade file supplied must be a .tar file. Do not attempt to use .bin or other file formats for the upgrade as these types of files do not work. The file name cannot contain spaces, and special characters.

Note: In this example, WAP125_1.0.0.4.tar is used.

Step 4. In the *TFTP Server IPv4 Address* field, enter the IP address of the TFTP Server where the firmware is located.

Note: In this example, 192.168.100.145 is used.
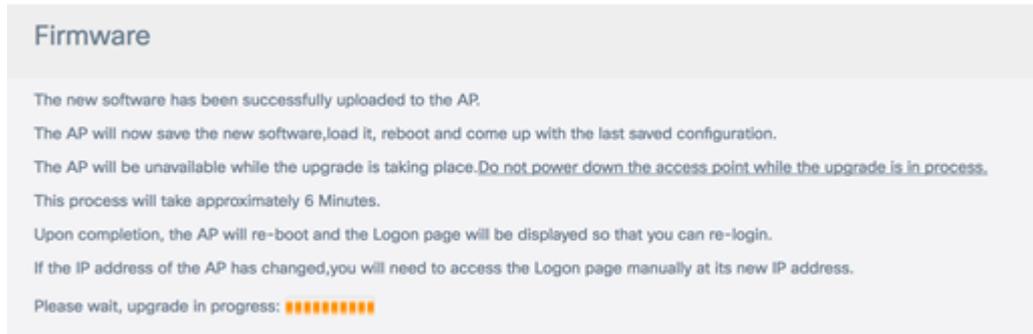

Step 5. Click **Upgrade**.

A progress bar will appear above the **Upgrade** button together with a note informing you that uploading the new firmware may take several minutes.
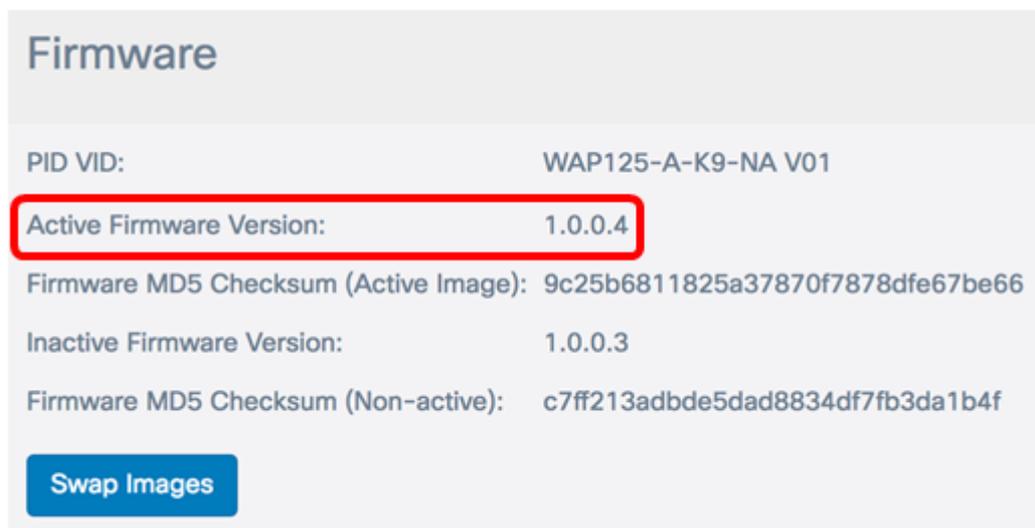
Step 6. Once the firmware has been uploaded to the WAP, the page changes and displays a series of instructions as the device reboots.

Firmware

The new software has been successfully uploaded to the AP.

The AP will now save the new software, load it, reboot and come up with the last saved configuration.

The AP will be unavailable while the upgrade is taking place. Do not power down the access point while the upgrade is in process.

This process will take approximately 6 Minutes.

Upon completion, the AP will re-boot and the Logon page will be displayed so that you can re-login.

If the IP address of the AP has changed, you will need to access the Logon page manually at its new IP address.

Please wait, upgrade in progress: ▮▮▮▮▮▮▮▮▮

Step 7. Once the WAP has rebooted, log back in to the web-based utility and choose **Administration > Firmware** to verify the new firmware version.

The Active Firmware Version should now show the latest version.

Firmware

PID VID:	WAP125-A-K9-NA V01
Active Firmware Version:	1.0.0.4
Firmware MD5 Checksum (Active Image):	9c25b6811825a37870f7878dfe67be66
Inactive Firmware Version:	1.0.0.3
Firmware MD5 Checksum (Non-active):	c7ff213adbde5dad8834df7fb3da1b4f

Swap Images

You should now have successfully upgraded the WAP125 through a TFTP Server.

Swap the Firmware

WAPs typically have two firmware images or files. This is so that if one firmware file fails for any reason, the other, a backup or non-active one can be used. You can also choose to use one over the other.

Step 1. In the Firmware area, click the **Swap Images** button.

Firmware

PID VID: WAP125-A-K9-NA V01

Active Firmware Version: 1.0.0.4

Firmware MD5 Checksum (Active Image): 9c25b6811825a37870f7878dfe67be66

Inactive Firmware Version: 1.0.0.3

Firmware MD5 Checksum (Non-active):   c7ff213adbde5dad8834df7fb3da1b4f

Swap Images

Step 2. A pop-up window will prompt you to confirm the switch to the secondary image. Click
OK to continue.

Confirm   ✕

⚠️ Confirm the switch to Secondary image. This will require a reboot.

OK   cancel

A progress bar will appear as the reboot is in progress.

The device will now reboot...
Please wait, reboot in progress: ▮▮▮▮▮

Step 3. Log back in to the web-based utility of the WAP and choose **Administration >
Firmware**.

PID VID: WAP125-A-K9-NA V01

Active Firmware Version: 1.0.0.3

Firmware MD5 Checksum (Active Image): c7ff213adbde5dad8834df7fb3da1b4f

Inactive Firmware Version: 1.0.0.4

Firmware MD5 Checksum (Non-active):   9c25b6811825a37870f7878dfe67be66

You should now have successfully swapped the Inactive Firmware to the Active Firmware.