



Upgrade FPGA for C8500 Devices

This document covers details on upgrading FPGA for C8500-20x6C devices.

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Upgrade FPGA for C8500-20x6C

Use this procedure to upgrade the FPGA software for a C8500-20x6C device with WAN MACsec configured.

Before you begin

Make sure that the minimum software version of the C8500-20x6C device is Cisco IOS XE 17.12.5a before you proceed with upgrading the FPGA software.

Procedure

Step 1 Check the current version of FPGA on slot 0 of the C8500-20x6C device

Example:

```
show hw-programmable 0
```

This command displays the current version of FPGA on slot 0 of the C8500-20x6C device. Typically the FPGA version will be less than **24042317**.

Step 2 Go to <https://software.cisco.com/download/home> and download `c8000aep-hw-programmables.17.12.05a.SPA.pkg`.

This is the FPGA upgrade image for C8500-20x6C device with WAN MACsec configured.

Step 3 If the FPGA version of the C8500-20x6C device is less than 24042317, upgrade the FPGA software on slot 0 using this command:

Example:

```
upgrade hw-programmable FPGA filename bootflash:c8000aep-hw-programmables.17.12.05a.SPA.pkg 0
```

```
Start service Upgrade FPGA on SPA-Inter-Processor 0 from current version 22051912 to 24042317  
(Y)es/(N)o/(C)ontinue? [Y] Y
```

```
Start service
```

This command could take up to 15 minutes, please wait and do not power-cycle the chassis or the card.

Otherwise, hardware may be unrecoverable. It is recommended that all cards are running the same version IOS-XE software prior to the upgrade. At the end of upgrade, cc/0 will be power-cycled.
(Y)es/(N)o/(C)ontinue? [Y] Y

Upgrade fpga hw-programmable on SPA-Inter-Processor 0

The fpga has been successfully upgraded on SPA-Inter-Processor/0.

PLEASE RELOAD THE CHASSIS NOW.

Step 4 After the FPGA upgrade is successful, reload the router

Step 5 Verify the upgrade was successful by using this command:

Example:

```
show hw-programmable 0
```

The version of the FPGA software is shown as **24042317**. If the version is not **24042317**, reach out to Cisco Technical Support team.
