

Upgrading Firmware of the Power Supply Monitoring Device

Table 1: Feature History

Feature Name	Release Information	Feature Description
Upgrading Power Supply Monitoring Firmware	Cisco IOS XE Bengaluru 17.6.1	This feature allows you to manually upgrade the firmware of the power supply monitoring device in a router. The firmware upgrade reduces unplanned hardware-related downtime caused by input voltage transients during a power outage.

Starting with Cisco IOS XE Bengaluru 17.6.1, you can manually upgrade the firmware of the power supply monitoring device in a router. The firmware upgrade reduces unplanned hardware-related downtime caused by input voltage transients during a power outage.

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Supported Platforms

Table 2: Feature History

Feature Name	Release Information	Description
Support for Firmware Upgrade	Cisco IOS XE Cupertino 17.9.1	This release introduces the firmware upgrade support for ASR 920-10SZ-PD and Cisco ASR-920-24SZ-IM, Cisco ASR-920-24SZ-M, and Cisco ASR-920-24TZ-M routers.

Starting with Cisco IOS XE Cupertino Release 17.9.1, firmware upgrade is supported on the following routers:

- ASR 920-10SZ-PD
- ASR-920-24SZ-IM
- ASR-920-24SZ-M
- ASR-920-24TZ-M

The firmware upgrade reduces unplanned hardware-related downtime caused by input voltage transients during a power outage.

- ASR-920-12CZ-D
- ASR-920-4SZ-D
- ASR-920-12SZ-IM and ASR-920-12SZ-IM-CC using ASR-920-PWR-D power supply

Restrictions for Upgrading the Firmware

- Automatic firmware upgrade is not supported, you must upgrade it manually.
- For the upgrade to take effect, the router reboots automatically, which results in a service interruption for a few minutes.



Ensure that there's a stable power supply during the firmware upgrade. This mitigates any unplanned hardware-related downtime in a router.

Upgrading the Firmware Manually

To upgrade the firmware, you should perform the following steps:

Step 1 Execute the **show upgrade hw-programmable** command to display the current firmware version.

Example:

```
      Router#show upgrade hw-programmable adm 0 firmware-version

      Hw-programmable ADM Firmware Versions

      version[0]
      version[1]

      0
      1
      0
```

Step 2 Execute the **upgrade hw-programmable** command to upgrade the firmware.

Example:

```
Router#upgrade hw-programmable adm 0

*Jan 27 06:47:45.760: %IOSXE-3-PLATFORM: F0: cmand: ADM1066 f/w upgrade,

*Jan 27 06:47:45.764: %IOSXE-3-PLATFORM: F0: cmand: ADM1066 CONF EEPROM erase,

*Jan 27 06:47:46.312: %IOSXE-3-PLATFORM: F0: cmand: ADM1066 CONF EEPROM program,

*Jan 27 06:47:47.089: %IOSXE-3-PLATFORM: F0: cmand: ADM1066 CONF EEPROM verify,

*Jan 27 06:47:47.546: %IOSXE-3-PLATFORM: F0: cmand: ADM1066 CONF EEPROM verify,
```

*Jan 27 06:47:47.547: %IOSXE-3-PLATFORM: F0: cmand: ADM1066 SE EEPROM erase, *Jan 27 06:47:48.222: %IOSXE-3-PLATFORM: F0: cmand: ADM1066 SE EEPROM program, *Jan 27 06:47:49.213: %IOSXE-3-PLATFORM: F0: cmand: ADM1066 SE EEPROM verify, *Jan 27 06:47:49.714: %IOSXE-3-PLATFORM: F0: cmand: ADM1066 SE EEPROM verify done, *Jan 27 06:47:49.714: %IOSXE-3-PLATFORM: F0: cmand: ADM Upgrade Completed System Going for Power Cycle Router# System Bootstrap, Version 15.6(43r)S, RELEASE SOFTWARE (fc1) Technical Support: http://www.cisco.com/techsupport Copyright (c) 2020 by cisco Systems, Inc. Compiled Mon 18-May-20 03:16 by pallavik Starting Initialization of FMAN0 Loading ucode for FMANO, size: 31424, ver: 106.04.14 Silicon Rev Major:Minor [1:1] Initializing the pci.. IOFPGA version[2008241e] Boot ROM1 Last reset cause: PowerOn UEA platform with 1048576 Kbytes of main memory

Step 3 Execute the **show upgrade hw-programmable** command to verify the upgrade.

Example:

Router# show u	upgrade hw-programmable adm	0 firmware-version	
Hw-programmak	ole ADM Firmware Versions		
version[0]	version[1]	version[2]	
0	1	1	
0	Ť	Ŧ	
Note	• For Cisco ASR-920-12SZ-IM	and ASR-920-12SZ-IM-CC, the current	nt firmwa

- For Cisco ASR-920-12SZ-IM and ASR-920-12SZ-IM-CC, the current firmware version is 0.1.0 and the upgraded version is 0.1.1.
 - For Cisco ASR-920-12CZ-D and ASR-920-4SZ-D, the current firmware version is 0.0.7 and the upgraded version is 0.1.0.