



Release Notes for Catalyst 6500 Series and Cisco 7600 Series Router MSFC2A ROMMON Software

Current Release: 12.2(17r)S6 — October 28, 2005

This publication describes how to upgrade the ROMMON on your Catalyst 6500 Series or Cisco 7600 Series Router Multilayer Switch Feature Card 2A (MSFC2A). The ROMMON upgrade is supported on WS-F6K-MSFC2A modules.



Note

All the bug fixes in the 12.2(17r)S6 ROMMON software upgrade apply to systems with Supervisor Engine 32.



Tip

You should consider the 12.2(17r)S6 ROMMON software upgrade if you need the bug fixes documented in the [“Caveats” section on page 3](#).

With this procedure, you can upgrade the ROMMON image similar to the way that you upgrade the operating system software (Catalyst software or Cisco IOS software).

ROMMON software release 12.2(17r)S6 is supported in Catalyst 6500 series and Cisco 7600 series systems that are running either of the following:

- Catalyst software on the Supervisor Engine 32 and Cisco IOS software on the MSFC2A
or
- Cisco IOS software on the Supervisor Engine 32 and on the MSFC2A

Contents

This publication consists of these sections:

- [System Software Requirements, page 2](#)
- [Software Images, page 2](#)
- [ROMMON Image Overview, page 3](#)
- [Caveats, page 3](#)
- [Caveats, page 3](#)
- [Upgrading the MSFC2A ROMMON, page 3](#)
- [Upgrading the MSFC2A ROMMON, page 3](#)
- [Storing More Than One ROMMON Image, page 5](#)
- [Additional Documentation, page 6](#)

System Software Requirements

The MSFC2A ROMMON software upgrade requires the following system software:

- MSFC2A ROMMON software release 12.2(17r)SX3 or later.
- For Catalyst 6500 series and Cisco 7600 series systems running Cisco IOS software on the Supervisor Engine 32 and on the MSFC2A, Cisco IOS Release 12.2(18)SXF is the first software release that supports a software upgrade of the ROMMON version.
- For Catalyst 6500 series and Cisco 7600 series systems running Catalyst software on the Supervisor Engine 32 and Cisco IOS software on the MSFC2A, Cisco IOS Release 12.2(18)SXF is the first software release that supports a software upgrade of the ROMMON version.

Software Images

[Table 1](#) lists the software releases for the MSFC2A ROMMON software.

Table 1 Upgradable Modules

MSFC2A ROMMON Software Release	Filename
12.2(17r)S6 upgradable module ROMMON image	c6msfc2a-RM2.srec.122-17r.S6
12.2(17r)SX3 upgradable module ROMMON image	c6msfc2a-rm2.srec.122-17r.SX3

New and Changed Information

MSFC2A ROMMON software release 12.2(17r)S6 contains bug fixes and the following new features:

- MSFC2A ROMMON release 12.2(17r)S6 supports bootdisk (CSCsb69874).



Note Before being able to use the bootdisk feature, the bootdisk in MSFC2A module must be formatted by Cisco IOS software 12.2(18)SXF1 or later.

MSFC2A ROMMON software release 12.2(17r)SX3 contains the following new features:

- MSFC2A ROMMON release 12.2(17r)SX3 adds support for system with supervisor engine 32 and Cisco IOS software on MSFC2A (CSCeg19952).

ROMMON Image Overview

The MSFC2A ROMMON consists of two modules:

- A resident module that is not changed during the upgrade procedure.
- An upgradable module that is updated during the upgrade procedure. This is the only module that you will download from Cisco.com.

Caveats

The following section contains resolved caveat information:

- [Resolved Caveats in MSFC2A ROMMON Software Release 12.2\(17r\)S6, page 3](#)

Resolved Caveats in MSFC2A ROMMON Software Release 12.2(17r)S6

- Add support for bootdisk in MSFC2A module (CSCsb69874)
- The unset command appears twice in the ROMMON CLI help text in privilege mode and listing of commands are not in alphabetic order (CSCeg24455)
- TFTP boot is terminated and the MSFC2A ROMMON goes to autoboot from bootflash when the CNTL-C command is given during TFTP boot of MSFC2A in a system running Catalyst operating software on the supervisor engine. (CSCin83211)

Upgrading the MSFC2A ROMMON



Note Before performing this procedure, you must download the new ROMMON image from Cisco.com. The download procedure is the same as downloading Catalyst software images.

To upgrade the ROMMON version on your MSFC2A, perform these steps:

Step 1 Check the active ROMMON information:

```
Router# show rom-monitor slot 1 rp

Region F1:APPROVED, preferred
Region F2:INVALID
Currently running ROMMON from F1 region
Router#
```

The display indicates that the active ROMMON is running in region1.

Step 2 Program the new ROMMON image to the Flash device on the MSFC2A:

```
Router# upgrade rom-monitor slot 1 rp file
tftp://dirt/tftpboot-users/c6msfc2a-RM2.srec.122-17r.S6

ROMMON image upgrade in progress
Erasing flash
Programming flash
Verifying new image
ROMMON image upgrade complete
The card must be reset for this to take effect
Router#
```

Step 3 Check the new active ROMMON information:

```
Router# show rom-monitor slot 1 rp

Region F1:APPROVED
Region F2:FIRST_RUN, preferred
Currently running ROMMON from F1 region
Router#
```

Step 4 Reset the MSFC2A:

```
Router# reload
Proceed with reload? [confirm]
```

Step 5 After the system comes up, check the ROMMON information again:

```
Router# show rom-monitor slot 1 rp

Region F1:APPROVED
Region F2:APPROVED, preferred
Currently running ROMMON from F2 region
Router#
```

The “Region2” field should show “APPROVED, preferred.” The ROMMON stored in the Region2 is now the active ROMMON.

Storing More Than One ROMMON Image

The procedure in this section is optional and should be used only if you have multiple versions of the upgraded ROMMON image stored on the MSFC2A. These procedures describe how to select a particular ROMMON image for booting and how to disqualify a particular ROMMON region.

Selecting a Stored ROMMON Image on the MSFC2A

There are three regions (including the Gold region) where versions of the ROMMON image can be stored. You can use the **upgrade rom-monitor slot preference** command to switch between regions.

The ROMMON software upgrade feature allows you to have two upgraded ROMMON images (one in region F1, the second in region F2) in addition to the “Gold” ROMMON stored on the one-time programmable (OTP) EPROM section of the ROMMON. Use the **upgrade rom-monitor slot preference** command to select which ROMMON will be the preferred ROMMON the next time the system is booted. You can change the preference as often as you like. The changes do not take effect until you reset the system.

To select a particular ROMMON image stored on the MSFC2A2, perform these steps:

Step 1 Change the ROMMON preference:

```
Router# show rom-monitor slot 1 rp
Region F1:FIRST_RUN
Region F2:FIRST_RUN, preferred
Currently running ROMMON from F2 region
Router# upgrade rom-monitor slot 1 rp preference region1
```

```
You are about to mark F1 region of RP ROMMON in slot 1 as the boot preference region,
proceed[n]? y
Router#
```

Step 2 Reload the MSFC2A for the change to take effect:

```
Router# reload
Proceed with reload? [confirm]
```

<output truncated>

Step 3 Verify the change:

```
Router# show rom-monitor slot 1 rp
Region F1:APPROVED, preferred
Region F2:APPROVED
Currently running ROMMON from F1 region
```

You can also disqualify a specific region of ROMMON and use the other region or go back to using the “Gold” ROMMON stored in the OTP EPROM section by using the **upgrade rom-monitor slot invalidate** command.

To disqualify a specific ROMMON region, perform these steps:

Step 1 Disqualify a specific ROMMON region:

```
Router# show rom-monitor slot 1 rp
Region F1:FIRST_RUN
Region F2:FIRST_RUN, preferred
Currently running ROMMON from F2 region
```

```
Router# upgrade rom-monitor slot 1 rp invalidate region2
```

```
You are about to mark F2 region of RP ROMMON in slot 1 as an invalid region,
proceed[n]? y
Router#
```

Step 2 Reload the MSFC2A for the change to take effect:

```
Router# reload
Proceed with reload? [confirm]
```

<output truncated>

Step 3 Verify the change:

```
Router# show rom-monitor slot 1 rp
Region F1:FIRST_RUN
Region F2:INVALID
Currently running ROMMON from S (Gold) region
```

Additional Documentation

The following Cisco IOS software documents are available for the Catalyst 6500 series switches:

- *Catalyst 6500 Series Switch Cisco IOS Software Configuration Guide*
- *Catalyst 6500 Series Switch Cisco IOS Command Reference*
- *Catalyst 6500 Series Switch Cisco IOS System Message Guide*

The following Cisco IOS software documents are available for the Cisco 7600 series routers:

- *Cisco 7600 Series Switch Cisco IOS Software Configuration Guide*
- *Cisco 7600 Series Switch Cisco IOS Command Reference*
- *Cisco 7600 Series Switch Cisco IOS System Message Guide*

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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