



ROMMON Release Notes for Supervisor Engine 7-E on the Cisco RF Gateway 10

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CHAPTER

1

Introduction

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This document describes how to download the new ROMMON image from Cisco.com and then upgrade the ROMMON on the Cisco RF Gateway 10 (RFGW-10) Universal Edge Quadrature Amplitude Modulation (EQAM) platform.

We recommend that you refer to the latest ROMMON image.

This document consists of the following:

- [ROMMON Image Overview, page 1](#)
- [Guidelines for Upgrading the ROMMON, page 1](#)
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ROMMON Image Overview

This ROMMON image consists of a new ROMMON software image and a new FPGA image. Both are installed by following the ROMMON upgrade procedure listed below. These images are only accepted on the Cisco RFGW-10 Supervisor Engine 7-E.

Guidelines for Upgrading the ROMMON

Ensure that you run one of the following releases on the Supervisor engine 7-E for using the new version of Cisco DS-384 line card (with P4080 CPU revision 3):

- Cisco IOS-XE Release 3.3.1SQ or later releases
- Cisco IOS-XE Release 3.2.3SQ or later releases

**Note**

If the Supervisor engine 7-E is running a release earlier than the above releases, the new version of the Cisco DS-384 line card (with P4080 CPU revision 3) does not downgrade and hence, does not work.

Choosing a ROMMON image for Supervisor Engine 7-E

[Table 1: Supported Cisco ROMMON Software Releases](#), on page 2 provides the list of ROMMON software releases supported in various Cisco IOS Releases for the RFGW-10, along with the ROMMON image filename. To upgrade the Supervisor Engine, download the appropriate Cisco ROMMON release from Cisco.com using the below information.

Table 1: Supported Cisco ROMMON Software Releases

ROMMON Software Release	ROMMON Image Filename	Release Date	Supported Cisco IOS Release on RFGW-10
Cisco ROMMON 15.0(1r)SQ(315)	RFGW10-e-ios-rfgwufw-150-1r-SQ1	October 2012	Cisco IOS Release 15.0(2)SQA
Cisco ROMMON 15.0(1r)SQ1(316)	RFGW10-e-ios-rfgwufw-150-1r-SQ1	April 2015	Cisco IOS Release 15.0(2)SQA

Upgrading the Supervisor Engine ROMMON

**Caution**

To avoid actions that might make your system unable to boot, read this entire section before starting the upgrade.

Follow this procedure to upgrade your Supervisor engine ROMMON:

Procedure

- Step 1** Directly connect a serial cable to the console port of the Supervisor engine.
- Note** This section assumes that the console baud rate is set to 9600 (default). If you want to use a different baud rate, change the configuration register value for your switch.
- Step 2** Download the RFGW-10 ROMMON image, RFGW10-e-ios-rfgwufw-150-1r-SQ1, from Cisco.com, and place it on a TFTP server in a directory that is accessible from the Supervisor that is upgraded. The ROMMON image, RFGW10-e-ios-rfgwufw-150-1r-SQ1, is available at the same location from which you download Cisco RFGW-10 system images on Cisco.com.
- Step 3** Use the `dir bootflash:` command to ensure that sufficient space exists in Flash memory to store the ROMMON upgrade image.
If you are using a CompactFlash card, replace `bootflash:` with `slot0:`
- Step 4** Download the RFGW10-e-ios-rfgwufw-150-1r-SQ1 program into Flash memory using the `copy tftp` command.

The following example shows how to download the PROM upgrade image RFGW10-e-ios-rfgwufw-150-1r-SQ1 from the remote host 172.20.58.78 to bootflash:

Example:

```
Switch# copy tftp: bootflash:
Switch# copy tftp bootflash:
Address or name of remote host [223.255.254.254]?
Source filename []? RFGW10-e-ios-rfgwufw-150-1r-SQ1
Destination filename [RFGW10-e-ios-rfgwufw-150-1r-SQ1]?
Accessing tftp://223.255.254.254/RFGW10-e-ios-rfgwufw-150-1r-SQ1...
Loading RFGW10-e-ios-rfgwufw-150-1r-SQ1 from 223.255.254.254 (via TenGigabitEthernet2/3):
!!!!!!
[OK - 1296588 bytes]
1296588 bytes copied in 6.696 secs (193636 bytes/sec)
```

Step 5 On a dual-Supervisor system, copy the same ROMMON image to the standby Supervisor engine with the **copy bootflash:RFGW10-e-ios-rfgwufw-150-1r-SQ1 slavebootflash** command.

Step 6 Enter the **reload** command to reset the switch, press Ctrl-C to stop the boot process, then re-enter ROMMON mode.

The following example shows the output after a reset into ROMMON:

Example:

```
Switch# reload
Proceed with reload? [confirm]
03:57:16:%SYS-5-RELOAD:Reload requested
  Rom Monitor Program Version 12.1(12r)EW
.
.(output truncated)
.
  Established physical link 1Gb Full Duplex
  Network layer connectivity may take a few seconds
rommon 1 >
```

Step 7 Run the PROM upgrade program by entering this command: **boot bootflash:RFGW10-e-ios-rfgwufw-150-1r-SQ1**
The following example shows the output from a successful upgrade, followed by a system reset:

Example:

```
rommon 1 >b bootflash:RFGW10-e-ios-rfgwufw-150-1r-SQ1
loading image
*****
*
* Rom Monitor Upgrade Utility For   WS-X45-SUP7-E System *
*
* Copyright (c) 2008-2011 by Cisco Systems, Inc.          *
* All rights reserved.                                     *
*
*****
Upgrading image... DO NOT RESET the system
unless instructed or upgrade will fail !!!
Image Name : Cat4K Mpc8572_Rommon_2MB
Image size : 2097152 bytes
Uncompressing image....
Done!
Cat4K_Mpc8572_Rommon_2MB: Digitally Signed Development Software with key version A
erasing... *****
writing... *****
reading... verifying... Done!
*****
System will now reset itself and reboot within few seconds
*****
```

```
*!*
*@*
```

Step 8 Check the upgraded version in rommon prompt:

Example:

```
rommon 1 >version
Primary Rom Monitor Version 15.0(1r)SQ1(316)
Compiled Tue 14-Apr-15 05:33 by vasanbal-rfgw_k10_rommon
Supervisor: RFGW-X45-SUP7-E Chassis: WS-CABLE_RFGW
CPU Rev: 2.1, Board Rev: 8, Board Type: 101
CPLD Joe Rev: 50.0x2643.0x5956 Installed memory: 2048 MBytes
```

Step 9 Boot the Cisco IOS software image. This may happen automatically if the system is configured to auto-boot.

Step 10 On a redundant system, hook up a console to the now-standby Supervisor engine. After the system achieves an SSO state, repeat steps 6-9.

Step 11 Use the show version command to verify that you have upgraded the ROMMON:

Example:

```
switch# show version | i ROM
ROM: 15.0(1r)SQ1(316)
```

Step 12 Use the delete command on the active Supervisor to delete the PROM upgrade program from bootflash. The following example shows how to delete RFGW10-e-ios-rfgwufw-150-1r-SQ1 image from bootflash:

Example:

```
Switch# delete bootflash:RFGW10-e-ios-rfgwufw-150-1r-SQ1
```

Step 13 On a redundant system, also delete the upgrade file from the standby Supervisor engine.

Example:

```
Switch# delete slavebootflash:RFGW10-e-ios-rfgwufw-150-1r-SQ1
The ROMMON has now been upgraded.
```

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation* at: <http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html> .

Subscribe to *What's New in Cisco Product Documentation* , which lists all new and revised Cisco technical documentation, as an RSS feed and deliver content directly to your desktop using a reader application. The RSS feeds are a free service.



CHAPTER 2

Caveats

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- [Open Caveats for Cisco ROMMON Release 15.0\(1r\)SQ1](#), page 5
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Cisco Bug Search

Cisco Bug Search Tool (BST), the online successor to Bug Toolkit, is designed to improve effectiveness in network risk management and device troubleshooting. You can search for bugs based on product, release, and keyword, and aggregates key data such as bug details, product, and version. For more details on the tool, see the help page located at <http://www.cisco.com/web/applicat/cbsshelp/help.html>.

Open Caveats for Cisco ROMMON Release 15.0(1r)SQ1

Bug	Description
CSCtx44255	date command incorrect in rommon

Resolved Caveats for Cisco ROMMON Release 15.0(1r)SQ1

Bug	Description
CSCur17716	Sg11 rommon:Usb is not detecting in sg11 rommon mode

Open Caveats for Cisco ROMMON Release 15.0(1r)SQ

Bug	Description
CSCub34955	<p>Symptom: On the first attempt, ROMMON for Cisco RFGW-10 Supervisor Engine 7-E fails to "dir usb0".</p> <p>Conditions: This issue occurs under normal conditions.</p> <p>Workaround: There is no workaround.</p>