



# 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.

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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> .

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