



ROMMON Release Notes for Cisco RF Gateway 10

Last Modified: 2014-08-31

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ROMMON Release Notes for Cisco RF Gateway 10 With Supervisor Engine RFGW-X4516-10GE

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](#)
- [Choosing a ROMMON image for the Supervisor Engine, page 2](#)
- [Upgrading the Supervisor Engine ROMMON, page 3](#)

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 Cisco RFGW-10 Supervisor engine.

Guidelines for Upgrading the ROMMON



Caution

If your Supervisor engine is shipped with a newer version of ROMMON then do not downgrade! The new ROMMON will have board settings based on a hardware revision of components, and old settings will not work.

Choosing a ROMMON image for the Supervisor Engine

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 12.2(31r)SQ1	RFGW-X4516-GERM-UW12_31r_SQ1	December, 2010	Cisco IOS Release 12.2(44)SQ, Cisco IOS Release 12.2(44)SQ1, Cisco IOS Release 12.2(44)SQ2, Cisco IOS Release 12.2(50)SQ, Cisco IOS Release 12.2(50)SQ1 Cisco IOS Release 12.2(50)SQ2
Cisco ROMMON 12.2(31r)SQ	RFGW-X4516-GERM-UW12_31r_SQ	May, 2010	Cisco IOS Release 12.2(44)SQ, Cisco IOS Release 12.2(44)SQ1, Cisco IOS Release 12.2(44)SQ2, Cisco IOS Release 12.2(50)SQ, Cisco IOS Release 12.2(50)SQ1

ROMMON Software Release	ROMMON Image Filename	Release Date	Supported Cisco IOS Release on RFGW-10
Cisco ROMMON 12.2(31r)SGA1	RFGW-X4516-10GE-RMUW-122_31r_SQ1	February, 2010	Cisco IOS Release 12.2(44)SQ, Cisco IOS Release 12.2(44)SQ1, Cisco IOS Release 12.2(44)SQ2, Cisco IOS Release 12.2(50)SQ, Cisco IOS Release 12.2(50)SQ1

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, RFGW-X4516-10GE-RMUW-122_31r_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, RFGW-X4516-10GE-RMUW-122_31r_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 RFGW-X4516-10GE-RMUW-122_31r_SQ1 program into Flash memory using the copy tftp command.
The following example shows how to download the PROM upgrade image RFGW-X4516-10GE-RMUW-122_31r_SQ1 from the remote host 172.20.58.78 to bootflash:

Example:

```
Switch# copy tftp: bootflash:
Address or name of remote host [172.20.58.78]?
Source filename [RFGW-X4516-10GE-RMUW-122_31r_SQ1]?
Destination filename [RFGW-X4516-10GE-RMUW-122_31r_SQ1]?
```

```

Accessing tftp://172.20.58.78/RFGW-X4516-10GE-RMUW-122_31r_SQ1...
Loading RFGW-X4516-10GE-RMUW-122_31r_SQ1 from 172.20.58.78 (via
FastEthernet2/1):!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
!!!!!!!!!!!!
[OK - 434828 bytes]
CCCCCCCCCCCC
434828 bytes copied in 4.276 secs (101690 bytes/sec)
Switch#

```

Step 5 On a dual-Supervisor system, copy the same ROMMON image to the standby Supervisor engine with the **copy bootflash:RFGW-X4516-10GE-RMUW-122_31r_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:RFGW-X4516-10GE-RMUW-122_31r_SQ1**

The following example shows the output from a successful upgrade, followed by a system reset:

Example:

```

rommon 1 >b bootflash:RFGW-X4516-10GE-RMUW-122_31r_SQ1
*****
*
* Rom Monitor Upgrade Utility For WS-X4516-10GE System *
*
* Copyright (c) 2003-2006 by Cisco Systems, Inc. *
* All rights reserved. *
*
*****

Upgrading Image... DO NOT RESET the system
unless instructed or upgrade will fail !!!
Image Name : Cat4K_Mpc8540_Rommon
Image size : 1048576 bytes
Uncompressing image.....
Done!
Beginning erase operation.....
Done!
Beginning write operation.....
Done!
Verifying.....
Done!
*****
System will now reset itself and reboot within few seconds
*****
*!*
*@*

*****
*
* Welcome to Rom Monitor for WS-X4516-10GE System. *

```



```

* Copyright (c) 2003-2006 by Cisco Systems, Inc.      *
* All rights reserved.                                *
*                                                     *
*****
Rom Monitor Program Version 12.2(31r)SQ1
Supervisor: WS-X4516-10GE  Chassis: WS-CABLE_RFGW
Hardware Revisions - Board: 4.11 CPLD Tie: 32 FPGA Pod: 62

MAC Address   : 00-11-21-ac-e6-36
IP Address    : 1.43.21.35
Netmask       : 255.255.0.0
Gateway       : 1.43.0.1
TftpServer    : 223.255.254.254
***** The system will autoboot in 5 seconds *****
Type control-C to prevent autobooting.
. .
Established physical link 100Mb Full Duplex
Network layer connectivity may take a few seconds
. . .
***** The system will autoboot now *****
config-register = 0x2
Autobooting using BOOT variable specified file.....
. . .

```

- Step 8** Boot the Cisco IOS software image. This may happen automatically if the system is configured to auto-boot.
- Step 9** On a redundant system, hook up a console to the now-standby Supervisor engine. After the system achieves an SSO state, repeat steps 6-8.
- Step 10** Use the show version command to verify that you have upgraded the ROMMON:

Example:

```

switch#show version
Cisco IOS Software, Catalyst 4500 L3 Switch Software (rfgw-ENTSERVICES-M), Version
12.2(50)SQ1, RELEASE SOFTWARE (fc1)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2009 by Cisco Systems, Inc.
Compiled Fri 13-Nov-09 16:39 by prod_rel_team
Image text-base: 0x10000000, data-base: 0x1205CF10
ROM: 12.2(31r)SQ1
Lemmy Revision 62, Force Revision 31, Tie Revision 32
RFGW-10 uptime is 0 minutes
Uptime for this control processor is 0 minutes
System returned to ROM by power-on
System image file is "tftp://223.255.254.254/mjagatap/rfgw-entservices-mz.122-50.SQ1"
cisco Cable-RFGW (MPC8540) processor (revision 11) with 524288K bytes of memory.
Processor board ID NWG113002RG
MPC8540 CPU at 800Mhz, Supervisor V-10GE
Last reset from Reload
1 Virtual Ethernet interface
14 Gigabit Ethernet interfaces
4 Ten Gigabit Ethernet interfaces
511K bytes of non-volatile configuration memory.
...

```

- Step 11** Use the delete command on the active Supervisor to delete the PROM upgrade program from bootflash. The following example shows how to delete RFGW-X4516-10GE-RMUW-122_31r_SQ1 image from bootflash:

Example:

```
Switch# delete bootflash:RFGW-X4516-10GE-RMUW-122_31r_SQ1
```

- Step 12** On a redundant system, also delete the upgrade file from the standby Supervisor engine.

Example:

```
Switch# delete slavebootflash:RFGW-X4516-10GE-RMUW-122_31r_SQ1
```

The ROMMON has now been upgraded.



Caveats

- [Cisco Bug Search](#), page 7
- [Open Caveats for Cisco ROMMON Release 12.2\(31r\)SQ1](#), page 7
- [Resolved Caveats for Cisco ROMMON Release 12.2\(31r\)SQ1](#), page 7
- [Open Caveats for Cisco ROMMON Release 12.2\(31r\)SQ](#), page 8
- [Resolved Caveats for Cisco ROMMON Release 12.2\(31r\)SQ](#), page 8
- [Open Caveats for Cisco ROMMON Release 12.2\(31r\)SGA1](#), page 8
- [Resolved Caveats for Cisco ROMMON Release 12.2\(31r\)SGA1](#), page 8

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 12.2(31r)SQ1

There are no open caveats for this release.

Resolved Caveats for Cisco ROMMON Release 12.2(31r)SQ1

- CSCti06671

Symptoms: The **confreg** *value* command that is used for changing the register configuration on the Cisco CMTS is not supported on the Cisco RFGW-10 Supervisor.

Conditions: When you execute the **confreg** *value* command, the following message is displayed:

```
usage: confreg
```

Workaround: There is no workaround.

Open Caveats for Cisco ROMMON Release 12.2(31r)SQ

There are no open caveats for this release.

Resolved Caveats for Cisco ROMMON Release 12.2(31r)SQ

- CSCtg05038

Symptoms: Supervisor cannot boot up.

Conditions: When the clear config all command is executed, all the environment variables on the Supervisor are reset, including the SkipDiagsAlways variable, which on power cycle triggers bootup diagnostics. However, the bootup diagnostics are not supported on the RFGW-10 Supervisor. As a result the Supervisor hangs at the bootup.

Workaround: In the ROMMON mode, set the variable SkipDiagsAlways to value 1.

Open Caveats for Cisco ROMMON Release 12.2(31r)SGA1

- CSCtg05038

Symptoms: Supervisor cannot boot up.

Conditions: When the clear config all command is executed, all the environment variables on the Supervisor are reset, including the SkipDiagsAlways variable, which on power cycle triggers bootup diagnostics. However, the bootup diagnostics are not supported on the RFGW-10 Supervisor. As a result the Supervisor hangs at the bootup.

Workaround: In the ROMMON mode, set the variable SkipDiagsAlways to value 1.

Resolved Caveats for Cisco ROMMON Release 12.2(31r)SGA1

- CSCsz71926

Symptoms: In Stateful Switchover (SSO) mode, the Standby Supervisor boot up is delayed due to a prolonged bulk configuration synchronization from the Active Supervisor to the Standby Supervisor. The Standby Supervisor may be reset due to timeout of its boot up process.

Conditions: This issue occurs when large number of video sessions are configured on the Cisco RFGW-DS48 line cards on the Cisco RFGW-10 Universal EQAM.

Workaround: There is no workaround.



Related Documentation

The following sections describe the documentation available for the Cisco RFGW-10 platform.

- [Platform-Specific Documents, page 9](#)
- [Feature Modules, page 9](#)
- [Cisco IOS Software Documentation Set, page 10](#)
- [Documentation Modules, page 10](#)
- [Obtaining Documentation and Submitting a Service Request, page 10](#)

Platform-Specific Documents

These documents are available for the Cisco RF Gateway 10 platform on Cisco.com:

- [Cisco RF Gateway 10 Hardware Installation Guide](#)
- [Cisco RF Gateway 10 Command Reference](#)
- [Cisco RF Gateway 10 Software Feature and Configuration Guide](#)
- [Cisco RF Gateway 10 MIB Specification Guide](#)
- [Cisco RF Gateway 10 Quick Start Guide](#)

Feature Modules

Feature modules describe new software enhancements, committed as features, and are updates to the Cisco IOS documentation set. A feature module consists of a brief overview of the feature, benefits, and configuration tasks, and a command reference. As updates, the feature modules are available online only. Feature module information is incorporated in the next printing of the Cisco IOS documentation set.

Cisco IOS Software: Cisco IOS Software Release 12.2SQ Family: Cisco IOS Software Releases 12.2(50)SQ: Feature Guides

Cisco IOS Software Documentation Set

The Cisco IOS software documentation set consists of the Cisco IOS configuration guides, Cisco IOS command references, and several other supporting documents.

Cisco IOS Software: Cisco IOS Software Release 12.2SQ Family: Cisco IOS Software Releases 12.2(50)SQ: Configuration Guide and Command Reference

Documentation Modules

Each module in the Cisco IOS documentation set consists of one or more configuration guides and one or more corresponding command references. Chapters in a configuration guide describe protocols, configuration tasks, and Cisco IOS software functionality, and contain comprehensive configuration examples. Chapters in a command reference provide complete command syntax information. Use each configuration guide with its corresponding command reference.

Cisco IOS Software: Cisco IOS Software Release 12.2SQ Family: Cisco IOS Software Releases 12.2(50)SQ: Command Reference

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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