Cisco RF Gateway 1 Software Release 3.01.08 Release Note

Overview

Introduction

The Cisco RF Gateway 1 software version 3.01.08 provides the following enhancements.

- SFTP support (Only SSHv2 with DSA key supported)
- SFTP client support to perform release management, backup/restore configuration, license management, and SSL/SSH key download
- Expanded firewall support, including SFTP port enable/disable, FTP, and Telnet ports
- Secure license transfer allows you to transfer a license(s) from one RF Gateway 1 to another
- Source-specific multicast revert to primary feature

Purpose

The purpose of this document is to notify RF Gateway 1 users of the enhancements included in the current release, and inform users of any special upgrade procedures needed for using Release 3.01.08.

Audience

This document is intended for system engineers or managers responsible for operating and/or maintaining this product.

Related Publications

Refer to the following documents for additional information regarding hardware and software.

- *Cisco RF Gateway 1 Configuration Guide*, part number 4025112
- *Cisco RF Gateway 1 System Guide*, part number 4024958

Safe Operation for Software Controlling Optical Transmission Equipment

If this document discusses software, the software described is used to monitor and/or control ours and other vendors' electrical and optical equipment designed to transmit video, voice, or data signals. Certain safety precautions should be observed when operating equipment of this nature.

For equipment-specific safety requirements, refer to the appropriate section of the equipment documentation.

For safe operation of this software, refer to the following warnings.

WARNINGS:

- Ensure that all optical connections are complete or terminated before using this equipment to remotely control a laser device. An optical or laser device can pose a hazard to remotely located personnel when operated without their knowledge.
- Allow only personnel trained in laser safety to operate this software. Otherwise, injuries to personnel may occur.
- Restrict access of this software to authorized personnel only.
- Install this software in equipment that is located in a restricted access area.

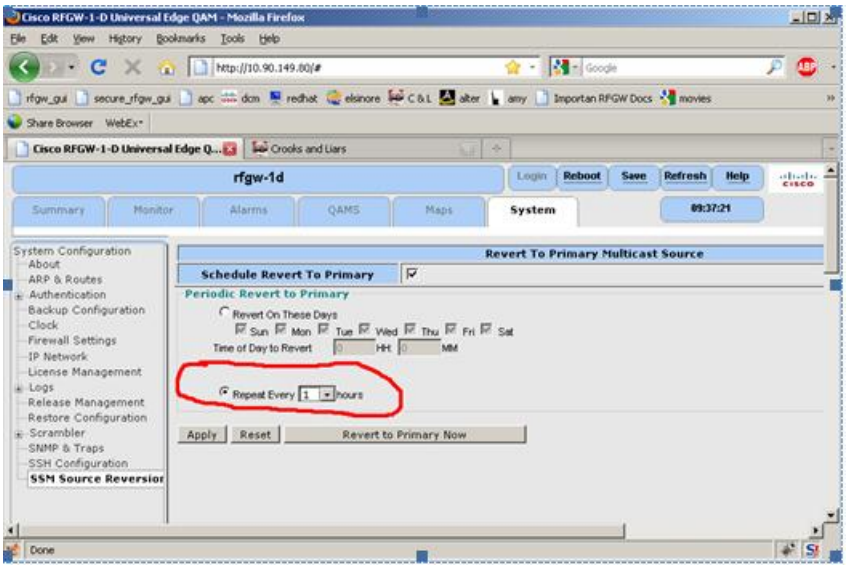
In This Document

Known Issues

The following list identifies known limitations planned to be resolved as part of an upcoming GA release.

- The RF Gateway 1 web management interface provides no events or alarms informing a user about a missing 8 channels per port license. The user can easily observe the *Summary* page to view greyed out channel frequencies and the *System/License Management* page to confirm an unlicensed unit.
- Over provisioning an unlicensed QAM channel causes an alarm condition on the RF Gateway 1.
- The RF Gateway 1 Web interface is not fully tested with IE-8 and FireFox 3.5.x or newer. The RF Gateway 1 web management interface is tested with IE-6 or FireFox 2.0.0.14 and above. Use of Java 1.6.x is also recommended.
- When using /31 IP addressing, although the RF Gateway 1 allows setting IP addresses and masks that correspond to this point-to-point protocol, it will not respond to ICMP ping requests.
- SNMP GET on the rfgw1OLSValidationKey returns NO_SUCH_NAME.
- Automatic db_save will not be triggered on sets to clock and log config MIB objects.
- Once an SFTP download for a specific release file begins, the download cannot be consistently aborted by clicking "Cancel".

- When using the *Revert to Primary* option, select all the days of the week using the *Revert On These Days* option. See screen below. Depending on the operating conditions, the actual repeat cycle can increase from the initial set value by as much as one hour per week.



- The RF Gateway 1 reboots if the IP MIB is walked.
- The interleaver values for RF channels 5-8 are incorrect after upgrading. See ***Upgrade Information*** (on page 6) for a simple workaround.

Licensing

After an upgrade to 3.01.08, a new system license (8 channels per-port) must be installed to access full 96 QAM channel support. For information regarding RF Gateway 1 licensing requirements and procedures, see the *Cisco RF Gateway 1 Configuration Guide*, part number 4025112 (revision D and up).

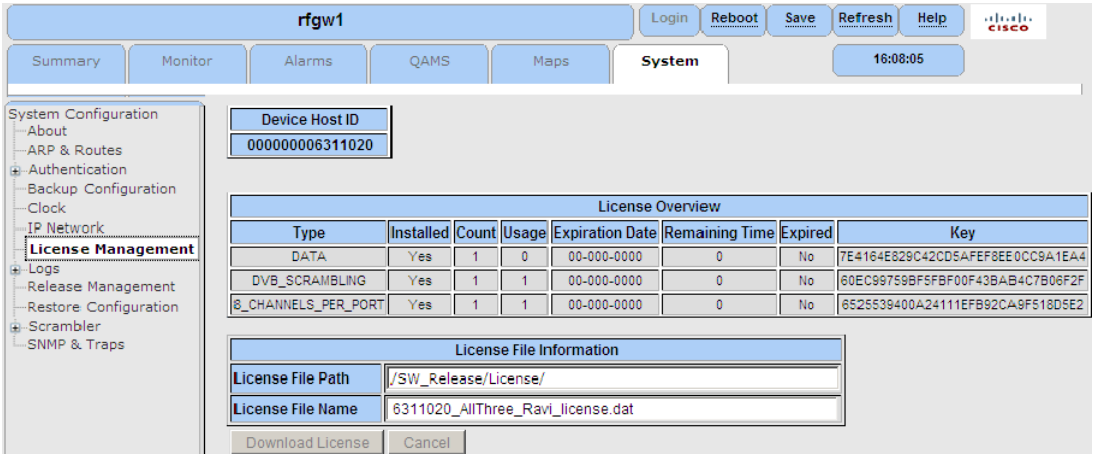
The following features require a system license:

- Third party encryption
- Data streams requiring use of the DOCSIS® timing interface
- DVB® encryption
- PowerKEY® encryption
- 8 channels per port

If licenses are not installed at the factory, activation of the features listed above will require that a license file be obtained from Cisco after an upgrade to 3.01.08. Contact your account representative for details on obtaining your license files.

Note: Performing an upgrade without a license file will not affect the configuration of a chassis already operating in release 1.03.X, 2.02.X, or 1.02.X. The unit continues to function as configured earlier until configuration or license changes are made. No alarms or warnings are currently present that indicate the absence of the 8 channel per-port license.

For systems requiring a license upgrade, a licensing-capable RF Gateway 1 provides the operator with a new tree menu item, *License Management*, located under the **System** tab. See the screen below. It provides an FTP mechanism to transfer license files to the device.



Upgrade Information

An RF Gateway 1 unit running release 1.02.20 or higher can be upgraded directly to 3.01.08. Refer to Chapter 3, *General Configuration and Monitoring (Release Management)* of the *Cisco RF Gateway 1 Configuration Guide*, part number 4025112, for more information. The RF Gateway 1 reboots automatically at the end of the upgrade process. However, when upgrading to 3.01.08 from 1.02.09, an intermediate step of using the bridge release 1.02.19 to arrive at 1.02.20 and finally 3.01.08 must be followed. The bridge release designated as 1.02.19 has been created to provide a secure and robust upgrade path. Releases 1.02.19 (bridge) and 1.02.20 (final) have identical user features and functionality.

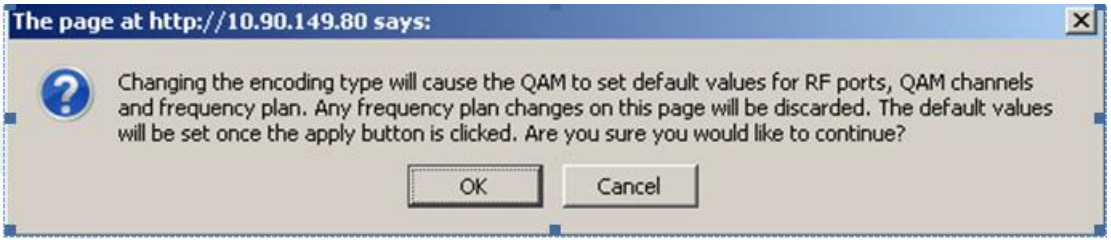
WARNING:

Upgrading to 1.02.20 or 3.01.08 directly from 1.02.09 must not be attempted. This may cause the RF Gateway 1 to be non-operational.

The following special upgrade steps must be followed if the QAM encoding type is set to ITU-A and an 8 channel per-port license is to be installed after the upgrade.

1. Record the settings for RF ports, QAM channels, and frequency plan as they will be set to default values in a later step.
2. Upgrade to 3.01.08.
3. Install the 8 channel per-port license.
4. Set the QAM encoding type to ITU-B.

   Result: The following message is displayed.



5. Press **OK**.
6. Set the QAM encoding back to ITU-A and restore the QAM settings.

IP Port Configuration Parameter Settings

The RF Gateway 1 has four physical GbE input ports that receive video and data streams from the upstream network. These ports may be used independently (in software releases 02.02.11 or later) or configured to implement input redundancy. See Chapter 3, *General Configuration and Monitoring* of the *Cisco RF Gateway 1 Configuration Guide*, part number 4025112 for details.

Displaying IP Port Configuration Settings

ollow these instructions to display the *System/IP Network* page.

1. Launch your web browser.
2. In the IP Address field, enter the RF Gateway 1 IP address.
3. Click **Enter**.
4. Click the *System/IP Network* tab and review the IP settings. See the following screen.

Recording IP Port Configuration Settings

Follow these instructions to record the IP port configuration settings.

1. Navigate to the *System/IP Network* page.
2. Click the **Alt-PrtScrn** keys to copy the IP Network parameter settings to the clipboard.
3. Launch Microsoft Word (or WordPad if you don't have Microsoft Word) and paste the clipboard contents to page 1.
4. Save the Microsoft Word document as ipsettings.doc.

For Information

Support Telephone Numbers

This table lists the Technical Support and Customer Service numbers for your area.

Region	Centers	Telephone and Fax Numbers
North America	Cisco Services Atlanta, Georgia United States	For *Technical Support*, call: ■ Toll-free: 1-800-722-2009 ■ Local: 678-277-1120 (Press **2** at the prompt) For *Customer Service*, call: ■ Toll-free: 1-800-722-2009 ■ Local: 678-277-1120 (Press **3** at the prompt) ■ Fax: 770-236-5477 ■ Email: customer-service@cisco.com
Europe, Middle East, Africa	Belgium	For *Technical Support*, call: ■ Telephone: 32-56-445-197 or 32-56-445-155 ■ Fax: 32-56-445-061 For *Customer Service*, call: ■ Telephone: 32-56-445-444 ■ Fax: 32-56-445-051 ■ Email: service-elc@cisco.com
Japan	Japan	■ Telephone: 81-3-5908-2153 or +81-3-5908-2154 ■ Fax: 81-3-5908-2155
Korea	Korea	■ Telephone: 82-2-3429-8800 ■ Fax: 82-2-3452-9748 ■ Email: songk@cisco.com
China (mainland)	China	■ Telephone: 86-21-2401-4433 ■ Fax: 86-21-2401-4455 ■ Email: xishan@cisco.com
All other Asia Pacific countries & Australia	Hong Kong	■ Telephone: 852-2588-4746 ■ Fax: 852-2588-3139 ■ Email: saapac-support@cisco.com
Brazil	Brazil	■ Telephone: 11-55-08-9999 ■ Fax: 11-55-08-9998 ■ Email: fattinl@cisco.com or ecavalhe@cisco.com
Mexico, Central America, Caribbean	Mexico	For *Technical Support*, call: ■ Telephone: 52-3515152599 ■ Fax: 52-3515152599 For *Customer Service*, call: ■ Telephone: 52-55-50-81-8425 ■ Fax: 52-55-52-61-0893 ■ Email: sa-latam-cs@cisco.com

For Information

Region	Centers	Telephone and Fax Numbers
All other Latin America countries	Argentina	For *Technical Support*, call: ■ Telephone: 54-23-20-403340 ext 109 ■ Fax: 54-23-20-403340 ext 103 For *Customer Service*, call: ■ Telephone: 770-236-5662 ■ Fax: 770-236-5888 ■ Email: keillov@cisco.com

Cisco Systems, Inc
5030 Sugarloaf Parkway, Box 465447
Lawrenceville, GA 30042

678 277-1120
800 722-2009
www.cisco.com

Printed in USA
May 2011
Part Number 7022721 Rev A