



Cisco RF Gateway 1 Release Notes, Release 1.02.22

Overview

Purpose

The purpose of these release notes for software release 1.02.22 is to notify RF Gateway 1 users of changes and new features.

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.

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Platform Changes

The expanded front panel LCD/keypad capabilities include:

- Management port MAC address display
- System location display
- Reboot capability

The expanded web interface capabilities include a revised *Summary* page with the following enhancements:

- Bandwidth use is now displayed in both percentage and absolute measurements
- Link status of the DTI and GbE ports now displayed graphically
- Internal changes to improve bit error rate (BER) performance and ensure that BER specifications are met

Basic M-CMTS Operation Changes

The following changes have been made to the Basic M-CMTS operation.

- The DTI timing offset variability in the data path observed between reboots in 1.02.09 has been resolved. As a result, systems may be configured and calibrated for load-balancing using dcc technique 4 only once. Re-calibration is no longer required after subsequent reboots or power cycles once 1.02.22 is operational.
- Timestamp offsets have been added to remove channel to channel skew so that a single DTI offset value can be used to calibrate timing offsets on all carriers.
- The web interface *Summary* page and *Measures* page includes higher resolution bit-rate measurements in support of keep-alive and other low bit-rate flows, unique to data applications.

Upgrade Information

In order to upgrade from 1.02.09 to 1.02.22, a bridge release designated as 1.02.19 has been created to provide a secure and robust upgrade path. Releases 1.02.19 (bridge) and 1.02.22 (final) have identical user features and functionality, with the exception of enhanced BER performance. Refer to *Upgrade Procedure for Customers Running 1.02.09* (on page 7).



WARNING:

Upgrading to 1.02.22 directly from 1.02.09 must not be attempted. This may cause the RF Gateway 1 to become non-operational.

IP Port Configuration Changes

There is a bug in 1.02.09 which results in the following IP Port configuration parameters to have inverted values saved in the configuration file.

- Negotiation Mode (On/Off) - one for each port (total 4)
- Redundancy Mode (Auto/Manual) - one for each port pair (total 2)
- Revert Mode (Enable/Disable) - one for each port pair (total 2)

For details on these parameters, refer to Chapter 3, *General Configuration and Monitoring* of the *Cisco RF Gateway 1 Configuration Guide*, part number 4025112.

This bug has been corrected in the configuration file in 1.02.19. Upon upgrade to 1.02.19, these three parameters will appear to have changed value as seen in the *System/IP Network* page of the web GUI, and as a result, the IP ports may not be configured properly for operation immediately after upgrade (after the subsequent reboot that follows activation).

Refer to ***Upgrade Procedure for Customers Running 1.02.09*** (on page 7) for proper IP Port configuration.

Upgrade Procedure for Customers Running 1.02.09

**WARNING:**

Upgrading to 1.02.22 directly from 1.02.09 must not be attempted. This may cause the RF Gateway 1 to become non-operational.

- 1 Before starting the upgrade, backup the system configuration. Refer to Chapter 3, *General Configuration and Monitoring (Configuration Backup)* of the *Cisco RF Gateway 1 Configuration Guide*, part number 4025112. Name the file appropriately to identify it as a configuration that corresponds to 1.02.09. This file will be necessary later if the user decides to revert back to 1.02.09.
- 2 Record the IP Port Configuration parameters by saving a screen capture of the *System/IP Network* page. Refer to *Recording IP Port Configuration Settings* (on page 8).
- 3 Download and activate 1.02.19. Refer to Chapter 3, *General Configuration and Monitoring (Release Management)* of the *Cisco RF Gateway 1 Configuration Guide*, part number 4025112. The RF Gateway 1 reboots automatically at the end of the upgrade process.
- 4 After reboot, display the IP Port Configuration page. Refer to *Displaying IP Port Configuration Settings* (on page 8).
- 5 Verify the IP Port Configuration parameters by checking them against those recorded in step 2 (prior to the upgrade as done in step 3). Note that the Negotiation Mode, Redundancy Mode, and Revert Mode parameter values are inverted. See IP Network screen in *Displaying IP Port Configuration Settings* (on page 8). Change the differing parameter values to match those recorded before download and activation. Be sure to click **Apply** after making your changes.
- 6 Once step 5 is completed, save the configuration which includes the IP Port Configuration parameters. Going forward, these values will not change.
- 7 Validate/qualify/soak release 1.02.19 in its application to establish confidence the release is operating at the same level as 1.02.09. In the very unlikely event service is impacted by 1.02.19, reverting back to 1.02.09 may be done to re-establish operations. If reverting back to 1.02.09 is necessary, the IP Port Configuration parameters must be swapped back and the configuration saved in step 2 restored.
- 8 After satisfactory completion of step 7, upgrade from 1.02.19 to 1.02.22. These two releases have identical performance and behavior, with the exception of enhanced BER performance. Release 1.02.22 includes a boot code upgrade that readily supports future roadmap features/releases without the need for subsequent two-step bridge upgrade processes.

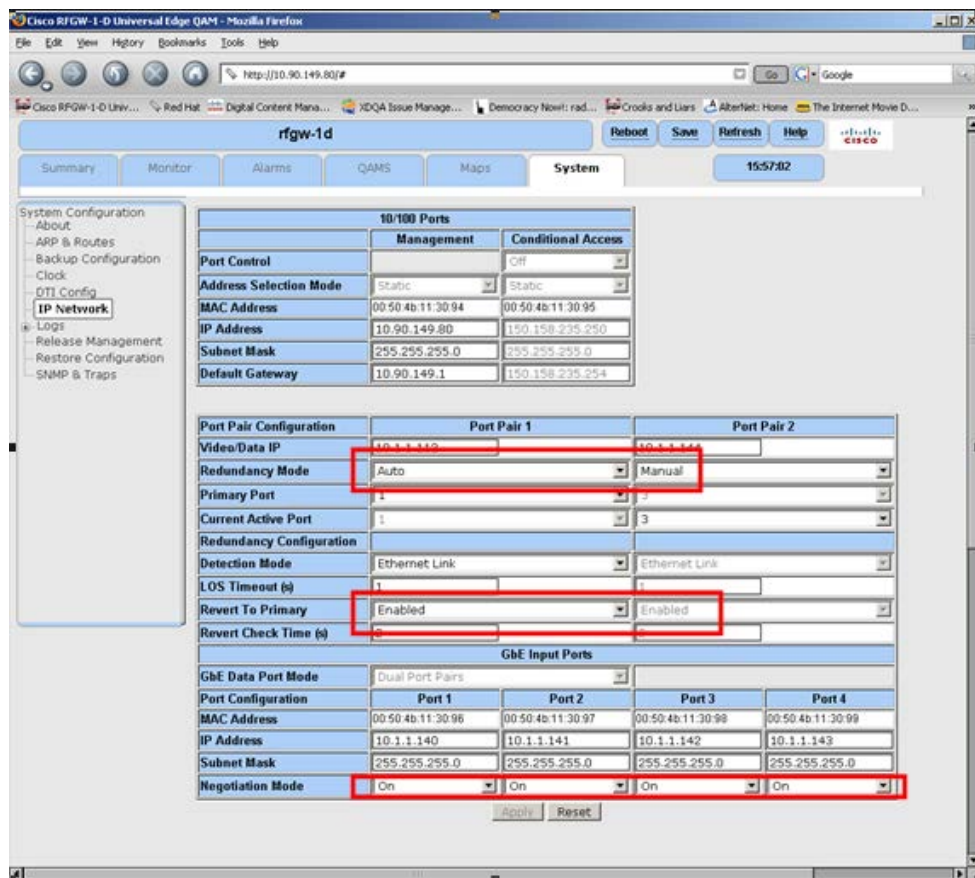
IP Port Configuration Parameter Settings

Refer to Chapter 3, *General Configuration and Monitoring* of the *Cisco RF Gateway 1 Configuration Guide*, part number 4025112 for specific details.

Displaying IP Port Configuration Settings

Follow 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 IP Port Configuration Settings.

- 1 Display the *IP Network* page.

- 2 Click the **Alt-PrtScrn** keys to copy the IP Network parameter settings to the clipboard.
- 3 Launch Microsoft Word (or Word Pad 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

For Information

If You Have Questions

If you have technical questions, call Cisco Services for assistance. Follow the menu options to speak with a service engineer.



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