Cisco RF Gateway 1 Remote Provisioning Utility (RPU) Software Version 2.1.0 Release Note

Overview

Introduction

The Cisco RF Gateway 1 (RFGW-1) Remote Provisioning Utility (RPU) software Version 2.1.0 is used to provision multiple RFGWs in the field. The RPU reads configuration parameters for RFGWs from Microsoft Excel spreadsheets, generates configuration files, and pushes these files to the appropriate RFGW.

RPU Version 2.1.0 introduces two new features:

- The ability to generate configuration files in JavaScript Object Notation (JSON) format and send JSON files to the server using the HTTP POST method.
- The ability to provision RFGW-1 units to be used for both SDV- and GQI-based VoD.

Purpose

The purpose of this document is to notify users of any enhancements included in this release, identify any known issues, and provide instructions for installing the software and using it to provision RFGWs.

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 78-4025112-01
- *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

Release History

The following table summarizes the release history for the Cisco RFGW-1 RPU software.

Version Number	Release Date	Comments
2.1.0	August 29, 2013	Added support for generating and exporting configurations in JSON format, and for provisioning RFGW-1 units to be used for both SDV- and GQI-based VoD.
1.0.5	October 11, 2012	Initial release.

Resolved Issues

There are no resolved issues in this release.

New Features

RPU Version 2.1.0 adds a provision to generate JSON formatted files that can be exported to a server using the HTTP POST method. The Microsoft Excel workbook has been modified to accommodate this feature.

Note:

- You must use the new version of the Excel workbook to generate JSON files. Refer to ***Excel Workbook Migration Procedure*** (on page 7) for details.
- If JSON file functionality is not needed, use the older version of the Excel workbook.

RPU Version 2.1.0 also adds support for provisioning RFGW-1 units to be used for both SDV- and GQI-based VoD.

Known Issues

For JSON functionality, the HTTP POST method has not been verified as there is no access to an actual server.

Excel Workbook Migration Procedure

To migrate from an earlier Excel workbook format to the newer version that supports JSON files, copy the contents of the following worksheets from the earlier workbook to the newer one:

- **Hub_Info**
- **RFGW-1-D System**
- **Device Info**

Note: If you plan to export the configuration in JSON file format, also fill in the **RFGW-1 QAMS** and **D6_Info** worksheets. Refer to the *RF Gateway 1 Remote Provisioning Utility (RPU) User Guide*, part number 4035993 for reference as needed.

Installing the Software

Complete the following steps to install the RPU software:

1. Access the software CD and extract the compressed file into a folder on your Windows desktop.
2. Locate the file CiscoRPU_02_00.exe in the folder and double-click the file to begin the installation.
3. Wait for the installation process to complete (ignore any error messages), and confirm that the RPU installs successfully.

Provisioning the RFGW

After installing the RPU, launch the application from the Windows desktop by choosing **Start > All Programs > Cisco RFGW Remote Provisioning Utility**.

You are now able to complete the provisioning of RFGWs. Provisioning of each RFGW occurs in two phases:

- In Phase 1, you set the RPU repository, create the reference database, and then import the Excel spreadsheet.
- In Phase 2, you verify the imported data, create the database file for the RFGW, push the file to the RFGW, and then verify the new configuration.

A few additional steps are needed to export the configuration file in JSON format.

The following sections provide additional details.

Provisioning Phase 1

1. Define the file path that the RPU will use when generating the intermediate folders and files during processing. This path is configurable to allow the RPU to run either with a local repository or with one that is on a shared network disk.

   Note: The repository must be present for any other actions to take place.
2. Create the reference database for a 48-channel or 96-channel RFGW.
   - To provision the RFGW with a new configuration, select the **Initial Configuration** procedure and follow the steps shown on the left side of the interface. This procedure generates a configuration file for the RFGW using the reference database file.
   - To upgrade the RFGW from 48 to 96 channels, select the **Upgrade from 48 to 96 channels** procedure and follow the steps shown on the left side of the interface. This procedure generates configuration file for the RFGW based on the database files it is already referencing.
3. Import the database into the repository for processing. This database is used later to create database files for selected RFGWs.
   - If you used the **Initial Configuration** procedure in Step 2, click **Import Db**. This generates a configuration file using the reference database file if the import method is **FTP File from RFGW**.
   - If you used the **Upgrade from 48 to 96 channels** procedure in Step 2, the **Import Db** button is not available because there is no reference database.
4. Locate the Excel spreadsheet file to be used by the RPU software and import the data from the file into the RPU application.

Provisioning Phase 2

1. Select the RFGW from the hub and check that the data imported for it during the last step in Phase 1 is correct. If the data is correct, click **Data OK** to verify. If not, correct the Excel spreadsheet file and import it again.
2. Select the RFGW from the hub and click **Create Configuration DB File**. This creates the configuration file for the RFGW.

   Note: You can hold down the Ctrl or Shift key to select multiple RFGWs and create configuration files for all of them in a single operation.
3. Select the RFGW from the hub and click **Program RFGW w/Config Data**. This pushes the configuration file generated above to the RFGW.

   Note: You can also hold down the Ctrl or Shift key to select multiple RFGWs and push their configuration files out in a single operation.
4. Use **one** of the following methods to verify the database parameters:
   - Active DB against Created DB - compares the current RFGW database with the database file generated by RPU.
   - Active DB against Created DB - compares the current RFGW database with the configuration parameters in the Excel data.
   - Created DB against Excel DB - compares the RPU database file with the configuration parameters in the Excel data.
   - Created DB against the In-Memory DB - compares the RFGW parameters with the database file generated by RPU. In this case, SNMP is used to get the values from the RFGW.

Exporting the Configuration File in JSON Format

1. Select one or more RFGW-1s from the hub.
2. Click **Generate JSON File** to generate JSON file.
3. Click **POST JSON to Server** to send the generated JSON file to the server.

For Information

If You Have Questions

If you have technical questions, contact Cisco Services at the following URL:

http://www.cisco.com/web/services/

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