



GQAM Modulator Software Version 4.6.1 Release Note

Overview

Introduction

This document describes the new features and benefits of upgrading a Model D9479 Gigabit Quadrature Amplitude Modulation (GQAM) Modulator to GQAM software version 4.6.1. This document also includes a description of the change requests (CRs) implemented in this release.

Audience

This document is intended for system operators or field service engineers who are responsible for installing the GQAM software onto the GQAM.

Scope

This release note provides an executive overview of GQAM software version 4.6.1. If you have questions about this release or require more detailed information, call Cisco® Services at 1-866-787-3866.

Document Version

This is the first formal release of this document.

Introducing GQAM Software Version 4.6.1

GQAM software version 4.6.1 is designed to be installed on a GQAM. After the software is installed and the modulator is active, it provides additional support for sites that deploy video-on-demand (VOD), *anything*-on-demand (xOD), and other interactive broadcast services.

Note: For a complete description of a GQAM, refer to the following documents:

- *Dual SFP Gigabit QAM Modulator Installation and Operation Guide* (part number 78-4014102-01)
- *Gigabit QAM Modulator Model D9479 Hardware Installation and Operation Guide* (part number 78-745431-01)

System Release Compatibility and Prerequisites

GQAM software version 4.6.1 can be installed on a Digital Broadband Delivery System (DBDS) that is running one of the following system releases (SR) and Digital Network Control System (DNCS) application versions:

- SR 2.7/3.7/4.2 and associated Service Packs
- SR 2.7.1/3.7.1/4.2.1
- SR 2.8/3.8/4.3
- SR 5.0.0.22p6 and associated patches
- SR 5.1 and associated Service Packs
- SR 6.0

For a complete configuration listing, or to upgrade your system, contact Cisco Services at 1-866-787-3866.

Software

GQAM 4.6.1 includes the following software code:

- GQAM Host Boot code 4.6.1
- GQAM Host Application code 4.6.1
- GQAM Input Boot code 4.6.1
- GQAM Input App code 4.6.1
- GQAM Output Boot code 4.6.1
- GQAM Output App code 4.6.1
- GQAM RF 2.6

Follow these instructions to download the update software. If you encounter any issues, contact your account representative for assistance.

- 1 From a web browser, navigate to Cisco.com.
- 2 Select **Support**.
- 3 Select **Downloads**.
- 4 In the Find field, type **GQAM 4.6.1**.
- 5 From the Find results, click the file you want to download and follow the prompts to download the software.

Hardware

GQAM 4.6.1 supports only the Model D9479 GQAM (both the single GigE Port and dual GigE Port models).

Operational Consideration

There is a limitation in the dual port GQAM that prevents it from supporting both GigE ports and the ASI ports simultaneously. If you are utilizing any of the ASI ports, the second GigE port is automatically disabled. If you want to use both GigE ports, the ASI ports must be empty and contain no sessions. You must tear down any sessions on the ASI ports. Once you enable the second GigE port, you will not be able to add sessions on the ASI ports.

What's New?

This section provides a description of the enhancements implemented in GQAM software version 4.6.1.

Craft Command `mpeg_autosync`

A new craft command called `mpeg_autosync` was added as a way to mitigate the slight performance decrease at very high input bandwidths that resulted from the implementation of CSCud64796. This command can be issued with the following parameters:

Parameter	Meaning
0	Disable autosync. Forces the GQAM to ignore RTP bits in the header. This results in slightly increased performance, but it does not permit the GQAM to work correctly if RTP bits are present in the GigE input packets.
1	Enable autosync (default). This setting causes the GQAM to be tolerant of IP packets with or without RTP bits present in the header.
No parameter	Check the current autosync status.

We recommend leaving the default setting of 1 unless you are experiencing input errors on the input GigE feeds when input bandwidth is approaching theoretical maximum. In this case, you may try a setting of 0; however, be aware that in this setting, the GQAM will no longer tolerate IP frames with RTP bits present.

Throttle Alarms Sent to the Upstream Monitoring Device

With this release, operators can configure the software to throttle alarms sent to the upstream monitoring device.

What's Fixed?

This section provides a description of the fixes implemented in GQAM software version 4.6.1.

CR ID #	Title
CSCtx95977	Macroblocking with GQAM code 4.4.7 and Virtual IP enabled.
CSCtz09990	SCP is putting the incorrect CRC on ACMs.
CSCty52199	GQAM will stop flowing data if it sees an input PAT with no programs on a TSR.
CSCty23238	querydtamode displays incorrect mode name.
CSCtz18299	GQAM WUI causes exception.
CSCub02408	GQAM 4.5.6 odd PID encrypted/clear mismatch.
CSCtw78644	GQAM4.5.3 Web UI access single login design can be bypassed.
CSCub02688	The GQAM will do a session reset on a single source multicast.
CSCub87628	GQAM failing to re-establish RPC communication after reboot.
CSCud27323	GQAM 4.5.8 populates incorrect SMDGs.
CSCud64796	GQAM 4.5.10 corrects a loss of input signal alarms on VOD GQAMs since upgrade to GQAM 4.5.8.
CSCud27671	GQAM 4.5.10 corrects a GQAM soft reset when port 1 in WUI is clicked.
CSCud63737	GQAM 4.5.10 addresses a loss of video caused in GQAM 4.5.8 by an improperly formatted dta_info ls command.

Known Issues

Introduction

This section provides a list of known system issues identified during testing of GQAM software version 4.6.1. Resolutions to these issues are currently under investigation or in development.

For More Information

The list in this section is not intended to be comprehensive. If you have questions about a particular change request, contact your account representative.

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.



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

678 277-1120
800 553-6387
www.cisco.com

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL:

www.cisco.com/go/trademarks.

Third party trademarks mentioned are the property of their respective owners.

The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

Product and service availability are subject to change without notice.

© 2013 Cisco and/or its affiliates. All rights reserved.

March 2013

Part Number OL-28772-01