



## **Release Notes for Cisco RF Gateway 10, Cisco IOS-XE Release 3.5SQ**

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### **Americas Headquarters**

Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
<http://www.cisco.com>  
Tel: 408 526-4000  
800 553-NETS (6387)  
Fax: 408 527-0883



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# CHAPTER 1

## Introduction



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This document describes the features and caveats for all releases in the Cisco IOS-XE Release 3.5SQ train for the Cisco RF Gateway 10 (RFGW-10) that supports the Cisco RFGW-10 DS-384 line card and the Cisco Supervisor Engine 7-E.

To download and upgrade to the new ROMMON image for the Cisco RFGW-X45-SUP7-E, see the ROMMON Release Notes for ROMMON Release Notes for Supervisor Engine 7-E on the Cisco RF Gateway 10 at: [http://www.cisco.com/en/us/docs/cable/rf\\_gateway/release/notes/rommom\\_rn\\_rfgw10\\_sup7e.html](http://www.cisco.com/en/us/docs/cable/rf_gateway/release/notes/rommom_rn_rfgw10_sup7e.html)

Cisco recommends that you view the field notices for this release to see if your software or hardware platforms are affected. If you have an account on Cisco.com, you can find field notices at: [http://www.cisco.com/en/US/support/tsd\\_products\\_field\\_notice\\_summary.html](http://www.cisco.com/en/US/support/tsd_products_field_notice_summary.html).

For information on new features and the Cisco IOS documentation set supported on Cisco IOS-XE Release 3.5SQ train, [New and Changed Information, on page 6](#) see the and the [Related Documentation, on page 15](#). For a list of the caveats that apply to this release, see the [Caveats, on page 17](#).



**Note** Use the service internal command on the Cisco RFGW-10 only for system debugging and troubleshooting purposes. This command should not be used in normal operation mode.



**Note** Cisco IOS-XE Release 3.5.2SQ is not available on Cisco.com now.

- [Overview of Cisco RF Gateway 10 UEQAM Platform, on page 2](#)

- [New and Changed Information, on page 6](#)
- [Important Notes, on page 12](#)
- [Limitations and Restrictions, on page 13](#)
- [Related Documentation, on page 15](#)
- [Obtaining Documentation and Submitting a Service Request, on page 15](#)

## Overview of Cisco RF Gateway 10 UEQAM Platform

The Cisco RFGW-10 is a carrier-class Universal Edge QAM (UEQAM) platform that offers concurrent support for standard and high-definition digital broadcast television, Switched Digital Video (SDV), Video on Demand (VoD), and DOCSIS/Modular CMTS services. It is a chassis-based product based on open standards with superior performance, capacity, power consumption, ease of management, and scalability. All components of the Cisco RFGW-10 are designed for high availability, including dual Supervisor and Ethernet switching line cards, 1:N Universal Edge QAM line cards, dual timing, communication and control (TCC) line cards, dual load balancing and load sharing DC PEMs and integrated RF switching modules.

The Cisco RFGW-10 is a centralized switching architecture leveraged from the Cisco Catalyst 4500 Series switches. The Cisco RFGW-10 is a 13-rack unit, modular chassis designed for providing front-to-back airflow and system-level redundancy. All chassis components are hot-swappable and redundant. The chassis supports “wire-once” cabling for RF line cards and an integrated dual-zone RF switch matrix. The Supervisor Engine 7-E provides robust Layer 2 to Layer 4 switching with up to 848 Gbps, and up to 250 Mbps packet throughput

## System Requirements

This section describes the system requirements for Cisco IOS-XE Release 3.5SQ series and includes the following sections:

### Hardware Supported

[Table 1: Hardware Supported on the Cisco RFGW-10](#), on [page 2](#) provides information on the hardware supported on the Cisco RFGW-10 for Cisco IOS-XE Release 3.5SQ.

**Table 1: Hardware Supported on the Cisco RFGW-10**

PID	Description
Cisco RFGW Chassis	
RFGW-10	Chassis with the following slots: 2 Supervisor, 10 RF line card, two TCC, and 12 RFGW-10-RFSW (RF switch card) slots. Also includes the RFGW-10 fan assembly and front panel display (FPD)
Cisco RFGW Series Supervisors	
RFGW-X45-SUP7-E	Cisco RFGW Supervisor 7-E, 4xSFP+ (10/1GE) (primary)
RFGW-X45-SUP7-E=	Cisco RFGW Supervisor 7-E, 4xSFP+ (10/1GE) (spare)
Cisco RFGW Series TCC Cards	

PID	Description
RFGW-TCC1	RFGW timing, communication, and control card v.04 or higher
RFGW-TCC1=	RFGW timing, communication, and control card v.04 or higher (spare)
Cisco RFGW Series Line Cards	
RFGW-DS384	RFGW universal downstream EQAM card, 8 RF ports, 384 QAMs
RFGW-DS384=	RFGW universal downstream EQAM card, 8 RF ports, 384 QAMs (spare)
RFGW-DS48	RFGW Universal Downstream EQAM Card, 48 QAMs
RFGW-DS48=	RFGW Universal Downstream EQAM Card, 48 QAMs (spare)
RFGW-DS48-1G	RFGW Universal Downstream EQAM card, 48 QAMs, 1 GHz
RFGW-DS48-1G=	RFGW Universal Downstream EQAM card, 48 QAMs, 1 GHz (spare)
RFGW-DS48-1G-BUN	RFGW Universal Downstream EQAM Card 48 QAMs 1G
Cisco RFGW Series RF Switch Cards	
RFGW-10RFSW1=	RFGW RF switch v1 (spare)
Cisco RFGW Series PEM Options	
RFGW-10-PWR-DC	RFGW DC PEM with monitoring v1
RFGW-10-PWR-DC1=	RFGW DC PEM with monitoring v1 (spare)
Cisco RFGW Series Supervisor Memory Options	
SD-X45-2GB-E	Catalyst 4500 2GB SD Memory Card for Sup7-E
SD-X45-2GB-E=	Catalyst 4500 2GB SD Memory Card for Sup7-E (spare)
USB-X45-4GB-E	Catalyst 4500 4GB USB device for Sup7-E
USB-X45-4GB-E=	Catalyst 4500 4GB USB device for Sup7-E (spare)
Cisco RFGW Series Transceiver Modules	
SFP-GE-T	1000BASE-T SFP (NEBS 3 ESD) (100 m on Cat5 UTP)
SFP-GE-S	1000BASE-SX short wavelength; with DOM (550 m on MMF)
SFP-GE-L	1000BASE-LX/LH long wavelength; with DOM (10 km on SMF)
SFP-10G-SR	10GBASE-SR SFP Module

PID	Description
SFP-10G-LR	10GBASE-LR SFP Module
<ul style="list-style-type: none"> <li>• GLC-SX-MMD</li> <li>• GLC-LH-SMD</li> </ul>	1 Gbps Optical SFP Modules



**Note** The Cisco IOS-XE Release 3.5SQ train does not support the Cisco RFGW-X4516-10GE, and the Cisco RFGW Supervisor V-10GE.

## Software Supported

*Table 2: Supported Software*

Supported Software	Minimum Release	Latest Release
Cisco IOS-XE Release	3.2.0SQ	3.5.8SQ
ROMMON Release	15.0(1r)SQ(315)	15.0(1r)SQ1(316)

For more information on ROMMON, see the ROMMON Release Notes for Supervisor Engine 7-E on the Cisco RF Gateway 10 at:

[http://www.cisco.com/en/US/docs/cable/rf\\_gateway/release/notes/ROMMOM\\_RN\\_RFGW10\\_SUP7E.html](http://www.cisco.com/en/US/docs/cable/rf_gateway/release/notes/ROMMOM_RN_RFGW10_SUP7E.html)

## Compatible Software and Versions

*Table 3: Compatible Software and Versions*

Compatible Software	Latest Release
Video Sessions Resource Manager (VSRM)	3.7.1-53
Cisco License Manager (CLM)	3.2.6
Cisco RF Gateway 10 Remote Provisioning Utility (RPU-10)	1.0
Cisco Converged EdgeQAM Manager (CEM)	1.0.1

## Determining the Software Version

To determine the version of Cisco IOS-XE software running on the Cisco RFGW-10 platform, log in to the platform and enter the **show version EXEC** command.

Below is an example of the output from the show version command:

```
RFGW10#show version
Cisco IOS Software, IOS-XE Software, RFGW-10 Software (rfgwk10-ENTSERVICESK9-M), Version
03.05.08.SQ RELEASE SOFTWARE (fc1)
```



Technical Support: <http://www.cisco.com/techsupport>  
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documentation or "License Notice" file accompanying the IOS-XE software,  
or the applicable URL provided on the flyer accompanying the IOS-XE  
software.

Image text-base: 0x100A6C34, data-base: 0x1433C750

ROM: 15.0(1r)SG(318)  
Joe Revision 10, Snowtrooper Revision 0x0.0x116

Goofy uptime is 18 minutes  
Uptime for this control processor is 19 minutes  
System returned to ROM by reload at 07:44:53 UTC Mon Apr 23 2018  
System restarted at 07:48:40 UTC Mon Apr 23 2018  
System image file is "slot0:rfgwk10-entservicesk9.03.05.08.SQ.150-2.SQD8.bin"  
Last reload reason: Admin reload CLI

This product contains cryptographic features and is subject to United  
States and local country laws governing import, export, transfer and  
use. Delivery of Cisco cryptographic products does not imply  
third-party authority to import, export, distribute or use encryption.  
Importers, exporters, distributors and users are responsible for  
compliance with U.S. and local country laws. By using this product you  
agree to comply with applicable laws and regulations. If you are unable  
to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:  
<http://www.cisco.com/wwl/export/crypto/tool/stqrg.html>

If you require further assistance please contact us by sending email to  
[export@cisco.com](mailto:export@cisco.com).

cisco Cable-RFGW (MPC8572) processor (revision 10) with 2097152K/16384K bytes of memory.  
Processor board ID FXS1728001R  
MPC8572 CPU at 1.5GHz, Supervisor 7  
Last reset from Reload  
57 Virtual Ethernet interfaces  
30 Gigabit Ethernet interfaces  
28 Ten Gigabit Ethernet interfaces  
511K bytes of non-volatile configuration memory.

Configuration register is 0x2

RFGW10#

## New and Changed Information

These sections list the new and existing hardware and software features supported by the Cisco RFGW-10:

### New Hardware Features in Cisco IOS-XE Release 3.5.8SQ

There are no new hardware features for Cisco IOS-XE Release 3.5.8SQ.

### New Hardware Features in Cisco IOS-XE Release 3.5.7SQ

There are no new hardware features for Cisco IOS-XE Release 3.5.7SQ.

### New Hardware Features in Cisco IOS-XE Release 3.5.6SQ

There are no new hardware features for Cisco IOS-XE Release 3.5.6SQ.

### New Hardware Features in Cisco IOS-XE Release 3.5.5SQ

There are no new hardware features for Cisco IOS-XE Release 3.5.5SQ.

### New Hardware Features in Cisco IOS-XE Release 3.5.4SQ

There are no new hardware features for Cisco IOS-XE Release 3.5.4SQ.

### New Hardware Features in Cisco IOS-XE Release 3.5.3SQ

There are no new hardware features for Cisco IOS-XE Release 3.5.3SQ.

### New Hardware Features in Cisco IOS-XE Release 3.5.2SQ

There are no new hardware features for Cisco IOS-XE Release 3.5.2SQ.

### New Hardware Features in Cisco IOS-XE Release 3.5.1SQ

There are no new hardware features for Cisco IOS-XE Release 3.5.1SQ.

### New Hardware Features in Cisco IOS-XE Release 3.5.0SQ

There are no new hardware features for Cisco IOS-XE Release 3.5.0SQ.

### New Software Features in Cisco IOS-XE Release 3.5.8SQ

There are no new software features for Cisco IOS-XE Release 3.5.8SQ.

## New Software Features in Cisco IOS-XE Release 3.5.7SQ

There are no new software features for Cisco IOS-XE Release 3.5.7SQ.

## New Software Features in Cisco IOS-XE Release 3.5.6SQ

There are no new software features for Cisco IOS-XE Release 3.5.6SQ.

## New Software Features in Cisco IOS-XE Release 3.5.5SQ

There are no new software features for Cisco IOS-XE Release 3.5.5SQ.

## New Software Features in Cisco IOS-XE Release 3.5.4SQ

There are no new software features for Cisco IOS-XE Release 3.5.4SQ.

## New Software Features in Cisco IOS-XE Release 3.5.3SQ

There are no new software features for Cisco IOS-XE Release 3.5.3SQ.

## New Software Features in Cisco IOS-XE Release 3.5.2SQ

There are no new software features for Cisco IOS-XE Release 3.5.2SQ.

## New Software Features in Cisco IOS-XE Release 3.5.1SQ

The following sections describe the new software features supported in the Cisco IOS-XE Release 3.5.1SQ.

### Video QAM Monitoring for Bandwidth Oversubscription

QAM bandwidth oversubscription is determined by measuring the bandwidth usage of a QAM and validating it against the capacity of the QAM. If the bandwidth usage exceeds the capacity for an interval of 30 seconds, the QAM is declared as oversubscribed. When you enable QAM monitoring for QAM bandwidth oversubscription, all the line cards in the chassis monitor the QAMs associated with them and report any QAM oversubscription activity in the form of console messages. You can also enable QAM bandwidth oversubscription trap to receive notifications on a NMS (network management system). QAM monitoring is disabled by default.

For more information about this feature, see the *RFGW-10 Video* chapter in *Cisco RF Gateway 10 Software Configuration Guide* at :

[http://www.cisco.com/c/en/us/td/docs/cable/rf\\_gateway/feature/guide/rfgw\\_scg/rfgw10\\_video.html](http://www.cisco.com/c/en/us/td/docs/cable/rf_gateway/feature/guide/rfgw_scg/rfgw10_video.html)

### Cisco RFGW-10 DS-384 Line Card Reset

Bass SEU interrupts are single event upset (SEU) interrupts received from Bass field-programmable gate array (FPGA). You can enable Cisco RFGW-10 DS-384 line card reset when Bass SEU interrupt is received.

For more information about this feature, see the *Cisco RF Gateway 10 DS-384 Line Card Hardware Installation Guide* at:

[http://www.cisco.com/c/en/us/td/docs/cable/rf\\_gateway/linecard/ds384/installation/guide/b\\_ds384\\_hig.html](http://www.cisco.com/c/en/us/td/docs/cable/rf_gateway/linecard/ds384/installation/guide/b_ds384_hig.html)

## Cisco RF Gateway 10 (RFGW-10) GUI Enhancements

### NGOD-D6 Support

Effective with Cisco IOS-XE Release 3.5.1SQ, NGOD-D6 interface is enhanced to support RFGW-10 GUI.

### Read-Only GUI Access

Users logged in with the login name “guest” will only have read-only access to the RFGW-10 GUI.

For more information, see the *Cisco RFGW-10 GUI User Guide* at:

[http://www.cisco.com/c/en/us/td/docs/cable/rf\\_gateway/feature/guide/rfgw10\\_gui.html](http://www.cisco.com/c/en/us/td/docs/cable/rf_gateway/feature/guide/rfgw10_gui.html)

### Enabling kernel dumper for RFGW-10 DS-384 Line Card

The kernel dumper program is invoked when the execution of kernel is disrupted. It collects vital information and dumps them in dump logs. These logs are compressed and written to the line card flash before a normal reboot is invoked.

For more information, see the *Cisco RF Gateway 10 DS-384 Line Card Hardware Installation Guide* at:

[http://www.cisco.com/c/en/us/td/docs/cable/rf\\_gateway/linecard/ds384/configuration/guide/b\\_ds384\\_scg.html](http://www.cisco.com/c/en/us/td/docs/cable/rf_gateway/linecard/ds384/configuration/guide/b_ds384_scg.html)

## New Software Features in Cisco IOS-XE Release 3.5.0SQ

The following sections describe the new software features supported in the Cisco IOS-XE Release 3.5.0SQ.

### Privacy Mode Encryption (PME)

Effective with Cisco IOS\_XE 3.5.0SQ, PME is the video encryption technology used for Video-on-demand (VOD). It enables easy encryption of VOD programs to ensure the programs are viewed only by the authorized subscribers.

PME encryption supports encryption in both local and remote modes. To enforce PME, use the **cable linecard encryption** command.

For more information on PME, see the *Cisco RFGW-10 Software Configuration Guide* at:

[http://www.cisco.com/c/en/us/td/docs/cable/rf\\_gateway/feature/guide/rfgw\\_scg.html](http://www.cisco.com/c/en/us/td/docs/cable/rf_gateway/feature/guide/rfgw_scg.html)

For more information on the **cable linecard encryption** command, see the *Cisco RFGW-10 Command Reference* at:

[http://www.cisco.com/c/en/us/td/docs/cable/rf\\_gateway/command/reference/b\\_rfgw10\\_cmd\\_ref.html](http://www.cisco.com/c/en/us/td/docs/cable/rf_gateway/command/reference/b_rfgw10_cmd_ref.html)

### NGOD-D6 QAM Partition

Effective with Cisco IOS\_XE 3.5.0SQ, Cisco RFGW-10 supports a new interface called NGOD-D6 for local video QAMs. It interfaces between EQAM and NMS. It is a service discovery and registration interface and the protocol used in this interface is VREP (Video Registration Protocol).

For more information on NGOD-D6 QAM Partition, see the *Cisco RFGW-10 Software Configuration Guide* at:

[http://www.cisco.com/c/en/us/td/docs/cable/rf\\_gateway/feature/guide/rfgw\\_scg.html](http://www.cisco.com/c/en/us/td/docs/cable/rf_gateway/feature/guide/rfgw_scg.html)

## Powerkey Alarm Delay

Effective with Cisco IOS-XE 3.5.0SQ, a new command **cable video scrambler alarm-start-delay** is introduced. This command is used to configure the delay timer for scrambling alarms. If the alarm is cleared within the configured delay time, then it will not be displayed on the console.

For more information on the **cable video scrambler alarm-start-delay** command, see the *Cisco RFGW-10 Command Reference* at:

[http://www.cisco.com/c/en/us/td/docs/cable/rf\\_gateway/command/reference/b\\_rfgw10\\_cmd\\_ref.html](http://www.cisco.com/c/en/us/td/docs/cable/rf_gateway/command/reference/b_rfgw10_cmd_ref.html)

## Enable Scrambling for Tier-based Mode

Effective with Cisco IOS-XE 3.5.0SQ, a new command **scrambling [Enable | Disable]** is introduced. It is used to enable or disable the tier-based scrambling of the line card.

For more information, see the *Cisco RFGW-10 Command Reference* at:

[http://www.cisco.com/c/en/us/td/docs/cable/rf\\_gateway/command/reference/b\\_rfgw10\\_cmd\\_ref.html](http://www.cisco.com/c/en/us/td/docs/cable/rf_gateway/command/reference/b_rfgw10_cmd_ref.html)

## Modified Software Features in Cisco IOS-XE Release 3.5.8SQ

There are no modified software features for Cisco IOS-XE Release 3.5.8SQ.

## Modified Software Features in Cisco IOS-XE Release 3.5.7SQ

There are no modified software features for Cisco IOS-XE Release 3.5.7SQ.

## Modified Software Features in Cisco IOS-XE Release 3.5.6SQ

There are no modified software features for Cisco IOS-XE Release 3.5.6SQ.

## Modified Software Features in Cisco IOS-XE Release 3.5.5SQ

Effective with Cisco IOS-XE 3.5.5SQ, the command **cable qdepth disable** is introduced to enable a customer specific scenario. For more information, see the [Cisco RF Gateway 10 Command Reference](#) guide.

## Modified Software Features in Cisco IOS-XE Release 3.5.4SQ

There are no modified software features for Cisco IOS-XE Release 3.5.4SQ.

## Modified Software Features in Cisco IOS-XE Release 3.5.3SQ

There are no modified software features for Cisco IOS-XE Release 3.5.3SQ.

## Modified Software Features in Cisco IOS-XE Release 3.5.2SQ

There are no modified software features for Cisco IOS-XE Release 3.5.2SQ.

## Modified Software Features in Cisco IOS-XE Release 3.5.1SQ

### Enhancements to CLI

#### Modifications in the Existing Command

- Effective with Cisco IOS-XE Release 3.5.1SQ, the command **cable video scrambler** for EIS is modified as follows:
  - tcp port has been changed to accommodate the range value 1 to 65535.
  - The CLI option “cp-overrule” has been changed to accommodate the range value 1 to 3600 (duration in seconds).
- The CLI option “max-comp-time” under the ECMG overrule configuration has been changed to accommodate the range 0 to 60000 (duration in msec).

#### Modifications in the Existing Show Command Output

- The “Bandwidth Used” field in the **show controllers qam slot/port.channel downstream** command, which used to display the input rate will now reflect the output bitrate.
- The “Total Measured Bitrate” field in the **show cable video session all summary** command which used to display the input rate will now reflect the output bitrate.

## Modified Software Features in Cisco IOS-XE Release 3.5.0SQ

### Cisco RF Gateway 10 (RFGW-10) GUI Enhancements

Effective with Cisco IOS-XE Release 3.5.0SQ, the GUI application has been enhanced to support PME and Dual Encrypt license configuration.

For more information, see the *Cisco RFGW-10 GUI User Guide* at the following URL:

[http://www.cisco.com/c/en/us/td/docs/cable/rf\\_gateway/feature/guide/rfgw10\\_gui.html](http://www.cisco.com/c/en/us/td/docs/cable/rf_gateway/feature/guide/rfgw10_gui.html)

### Enhancements to CLI

#### Additional Fields added to Existing Show Command Output

- Effective with Cisco IOS-XE 3.5.0SQ, the output of the **show cable video statistics packet** command is modified. The Total Multicast Sessions and Total Unicast Sessions fields are added to display the total multicast sessions and total unicast sessions.
- Effective with Cisco IOS-XE 3.5.0SQ, the output of the **show cable video session all** command, the Current State field is added to display the current state of the session.

For more information, see the *Cisco RFGW-10 Command Reference* at:

[http://www.cisco.com/c/en/us/td/docs/cable/rf\\_gateway/command/reference/b\\_rfgw10\\_cmd\\_ref.html](http://www.cisco.com/c/en/us/td/docs/cable/rf_gateway/command/reference/b_rfgw10_cmd_ref.html).

## MIBs

To locate and download MIBs for selected platforms, Cisco IOS releases, and feature sets, use Cisco MIB Locator found at the following URL:

<http://tools.cisco.com/ITDIT/MIBS/servlet/index>

To access Cisco MIB Locator, you must have an account on Cisco.com. If you have forgotten or lost your account information, send a blank e-mail to [cco-locksmith@cisco.com](mailto:cco-locksmith@cisco.com). An automatic check verifies that your e-mail address is registered with Cisco.com. If the check is successful, account details with a new random password is e-mailed to you. Qualified users can establish an account on Cisco.com by following the directions found at this URL:

<http://tools.cisco.com/RPF/register/register.do>

For information about the MIBs supported by the Cisco RFGW-10 in common with Cisco IOS-XE, see the [Cisco RF Gateway 10 MIB Specifications Guide](#).

### New and Changed MIB Information in Cisco IOS-XE Release 3.5.8SQ

There are no new or changed MIB information for Cisco IOS-XE Release 3.5.8SQ.

### New and Changed MIB Information in Cisco IOS-XE Release 3.5.7SQ

There are no new or changed MIB information for Cisco IOS-XE Release 3.5.7SQ.

### New and Changed MIB Information in Cisco IOS-XE Release 3.5.6SQ

There are no new or changed MIB information for Cisco IOS-XE Release 3.5.6SQ.

### New and Changed MIB Information in Cisco IOS-XE Release 3.5.5SQ

There are no new or changed MIB information for Cisco IOS-XE Release 3.5.5SQ.

### New and Changed MIB Information in Cisco IOS-XE Release 3.5.4SQ

There are no new or changed MIB information for Cisco IOS-XE Release 3.5.4SQ.

### New and Changed MIB Information in Cisco IOS-XE Release 3.5.3SQ

There are no new or changed MIB information for Cisco IOS-XE Release 3.5.3SQ.

### New and Changed MIB Information in Cisco IOS-XE Release 3.5.2SQ

There are no new or changed MIB information for Cisco IOS-XE Release 3.5.2SQ.

### New and Changed MIB Information in Cisco IOS-XE Release 3.5.1SQ

The following MIB is modified in Cisco IOS-XE Release 3.5.1SQ:

- CISCO-QP-LBG-MIB

Effective with Cisco IOS-XE Release 3.5.1SQ, the Cisco RF Gateway-10 supports *cqlQamOverSubscribedAlert* MIB trap and *cqlqpQamOversubscribedStatus* and *cqlqpServerIpList* MIB objects.

## New and Changed MIB Information in Cisco IOS-XE Release 3.5.0SQ

The following MIBs are added in Cisco IOS-XE Release 3.5.0SQ:

- CISCO-QP-LBG-MIB
- CISCO-DTI-EXT-MIB

The following MIB is modified in Cisco IOS-XE Release 3.5.0SQ:

- CISCO-VPDN-MGMT-MIB

## Important Notes

The Cisco RF Gateway 10 Supervisor Engine 7-E uplink ports are not recommended for data or management traffic. The Supervisor 7-E card has four uplink ports on its front panel. Only the top two ports are active in redundancy mode. However, in redundancy mode, packet loss occurs in the traffic paths between the uplink ports on the standby Supervisor card and the switch fabric on the active Supervisor card. There is no packet loss for uplink ports on active supervisors. The uplink ports on the Cisco RFGW-10 DS-384 and the Cisco RFGW-10 DS-48 line cards are recommended for data and management traffic.

## Cisco IOS-XE Release 3.5.8SQ

There is no important notes for Cisco IOS-XE Release 3.5.8SQ.

## Cisco IOS-XE Release 3.5.7SQ

There is no important notes for Cisco IOS-XE Release 3.5.7SQ.

## Cisco IOS-XE Release 3.5.6SQ

There is no important notes for Cisco IOS-XE Release 3.5.6SQ.

## Cisco IOS-XE Release 3.5.5SQ

There is no important notes for Cisco IOS-XE Release 3.5.5SQ.

## Cisco IOS-XE Release 3.5.4SQ

There is no important notes for Cisco IOS-XE Release 3.5.4SQ.

## Cisco IOS-XE Release 3.5.3SQ

- Effective with Cisco IOS-XE Release 3.5.3SQ, fail-to-clear-duration timeout command is introduced to configure DVB encrypted session to flow clear for a specified duration.



- Effective with Cisco IOS-XE Release 3.5.3SQ, pme mgmt-ip is introduced to configure RFGW10 management IP as part of PME configuration for CEM communication.
- Effective with Cisco IOS-XE Release 3.5.3SQ, the ONID range is 0 – 65535.

## Cisco IOS-XE Release 3.5.1SQ

Effective with Cisco IOS-XE Release 3.5.1SQ, QP ERMI span is supported.

## Cisco IOS-XE Release 3.5.0SQ

- Effective with Cisco IOS-XE Release 3.5.0SQ, the following are supported:
  - 384 Video QAMs for Annex B/C
  - 288 Video QAMs for Annex A or mix of Annex A and B/C.
  - All video QAMs are PowerKey/DVB/Dual-crypt/PME encryption capable.
- Effective with Cisco IOS-XE Release 3.4.1SQ, the reserved PID range is 256 - 8159.
- Effective with Cisco IOS-XE Release 3.4.1SQ, the **show cable depi-ctrl-sessions teardown details** command is introduced to view the session failure reason and the time of failure for particular DEPI session.
- Effective with Cisco IOS-XE Release 3.4.1SQ, the **cable downstream 8MHz-overlap-start-freq frequency** command is introduced to configure the starting frequency for the 8MHz overlap block for Annex A.
- Effective with Cisco IOS-XE Release 3.4.0SQ, the **onid** keyword is removed from the **cable downstream tsid** command and replaced with the **cable downstream onid** command.
- Effective from Cisco IOS-XE Release 3.4.0SQ, if Annex A is configured, then the Logical QAM groups must be configured contiguously, for example, lqam-group1, lqam-group2, lqam-group3, and so on.
- Effective with Cisco IOS-XE Release 3.4.0SQ, while using the **replicate-qam** command, the keywords **qam**, **Qam**, **qam-red**, **Qam-red** should be explicitly typed. Typing q or Q and pressing **Tab** will not auto-complete it.
- Effective with Cisco IOS-XE Release 3.4.0SQ, a replicate with DEPI remote learn should be removed from the QRG before defaulting it, if not it may lead to QRG corruption.
- Effective with Cisco IOS-XE Release 3.4.0SQ, a PID should be filtered before scrambling a session, filtering of PID on the scrambled session can lead to unwarranted results.
- Effective with Cisco IOS-XE Release 3.4.0SQ, bulk QRG removal is supported only through GUI. It takes about 3 seconds to complete the action with this option. While using this option the user should not simultaneously access the console to enter any commands. If the console is accessed simultaneously, the QRG removal in the standby supervisor card may be affected.
- Effective with Cisco IOS-XE Release 3.4.0SQ, scrambling of MPTS remap sessions are not supported.

## Limitations and Restrictions

This section lists the limitations and restrictions for the Cisco IOS-XE Release 3.5SQ train on the Cisco RFGW-10:

- LQAM-group configuration restrictions
  - An lqam-group can have a maximum number of eight QAM channels

- It can be spanned across two QAM ports with a maximum of four QAM channels per port
- It should be associated in an ascending order of QAM interfaces or ports
- Online insertion and removal (OIR) of active Supervisor card is not supported. You must force switchover to the standby Supervisor card before removing the active card.
- The limitation for ERMI is that only 48 TSIDs are supported on one Service Group (SG).
- Use the ASI port in maintenance window only.
- Policing cannot be applied to bitrate for streams and the session reserved bitrate.
- The start-frequency of pilot QAM port and replicate QAM port should not be different.
- Before a QAM Replication Group (QRG) is configured, the LCRED must be configured.
- Some of the below system commands for querying CPU and Memory should not be executed continuously for better operation and performance
  - **show memory**
  - **show cpu**
  - **show redundancy**
- After a QRG is configured, no other configuration changes are supported on replicate QAM except below:
  - **shutdown** (admin)
  - **no shutdown** (admin)
  - **default** (except remote learn QAMs)
- After a QRG is configured, no other configuration changes are supported on pilot QAM except below:
  - **shutdown** (admin)
  - **no shutdown** (admin)
  - **default** (except remote learn QAMs)
  - **rf-shutdown**
  - **no rf-shutdown**
- The RF parameters of an RF profile being used in a QRG cannot be modified.
- The number of passthru sessions is restricted to one per QAM channel.
- These are the QAM limitations in the Cisco IOS-XE Release 3.5.0SQ:
  - Annex B/C
  - 1024 total DS channels—384 pilot QAMs and 640 replicate QAMs
  - 256 DEPI QAMs
  - 384 video QAMs—All video QAMs are PowerKey/DVB/Dual crypt/PME encryption capable
    - Annex A or mix of Annex A and B/C
  - 768 total—288 pilot QAMs and 480 replicate QAMs
  - 288 video QAMs—All video QAMs are PowerKey/DVB/Dual crypt/PME encryption capable
  - 192 DEPI QAMs
  - 144 Annex—A QAMs per load balancing group (LBG)
  - Annex A specifications allows user defined symbol rates only for video.
  - Static remote DEPI is not supported.
  - Cisco IOS-XE Release 3.5.0SQ provides limited support to Etherchannel.
  - Effective with Cisco IOS-XE Release 3.4.0SQ, PowerKey/DVB encryption licenses are changed to feature-based from count-based.

- Effective with Cisco IOS-XE Release 3.4.0SQ, the max-carrier number configured on a port includes only pilot QAMs and non-QRG channels on that port. The max-carrier number does not include replicate QAMs.
- Jumbo Frames are not supported on line cards.
- RFGW-10 booting up with older configuration that does not have management IP can not be able to establish CEM connectivity anymore. Customer should choose a particular interface for connecting to CEM and provide the IP address of that interface as PME management IP.

## Related Documentation

These documents are available for the Cisco RFGW-10 platform on Cisco.com:

- [Cisco RF Gateway 10 Hardware Installation Guide](#)
- [Configuring the Cisco RFGW-10 DS-384 Line Card](#)
- [Cisco RF Gateway 10 Command Reference](#)
- [Cisco RF Gateway 10 GUI](#)
- [Cisco RF Gateway 10 Software Feature and Configuration Guide](#)
- [Software License Activation for Cisco RF Gateway 10 Line Cards](#)
- [Cisco RF Gateway 10 MIB Specification Guide](#)
- [Cisco RF Gateway 10 Quick Start Guide](#)
- [Release Notes for Cisco RF Gateway 10](#)
- [Cisco RF Gateway 10 Remote Provisioning Utility User Guide](#)

## 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](#).

To receive new and revised Cisco technical content directly to your desktop, you can subscribe to the [What's New in Cisco Product Documentation RSS feed](#). The RSS feeds are a free service.





## CHAPTER 2

# Caveats

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This section describes open and resolved severity 1 and 2 caveats and select severity 3 caveats:

- The “Open Caveats” sections list open caveats that apply to the current release and may apply to previous releases. A caveat that is open for a prior release and is still unresolved applies to all future releases until it is resolved.
- The “Resolved Caveats” sections list caveats resolved in a specific release, but open in previous releases.
- [Cisco Bug Search](#), on page 17
- [Open Caveats for Cisco IOS-XE Release 3.5.8SQ](#), on page 18
- [Resolved Caveats for Cisco IOS-XE Release 3.5.8SQ](#), on page 18
- [Open Caveats for Cisco IOS-XE Release 3.5.7SQ](#), on page 18
- [Resolved Caveats for Cisco IOS-XE Release 3.5.7SQ](#), on page 18
- [Open Caveats for Cisco IOS-XE Release 3.5.6SQ](#), on page 19
- [Resolved Caveats for Cisco IOS-XE Release 3.5.6SQ](#), on page 19
- [Open Caveats for Cisco IOS-XE Release 3.5.5SQ](#), on page 19
- [Resolved Caveats for Cisco IOS-XE Release 3.5.5SQ](#), on page 19
- [Open Caveats for Cisco IOS-XE Release 3.5.4SQ](#), on page 20
- [Resolved Caveats for Cisco IOS-XE Release 3.5.4SQ](#), on page 20
- [Open Caveats for Cisco IOS-XE Release 3.5.3SQ](#), on page 21
- [Resolved Caveats for Cisco IOS-XE Release 3.5.3SQ](#), on page 22
- [Open Caveats for Cisco IOS-XE Release 3.5.1SQ](#), on page 23
- [Resolved Caveats for Cisco IOS-XE Release 3.5.1SQ](#), on page 23
- [Open Caveats for Cisco IOS-XE Release 3.5.0SQ](#), on page 24
- [Resolved Caveats for Cisco IOS-XE Release 3.5.0SQ](#), on page 24

## 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 IOS-XE Release 3.5.8SQ

There are no open caveats for Cisco IOS-XE Release 3.5.8SQ.

## Resolved Caveats for Cisco IOS-XE Release 3.5.8SQ

Caveat ID Number	Description
<a href="#">CSCej44331</a>	No socket for the specified port# message when registering endpoints
<a href="#">CSCtr78358</a>	YAP: sh platform software monitor all asserts
<a href="#">CSCuq11612</a>	Mismatch System returned to ROM Time
<a href="#">CSCuq51351</a>	SQC : TFTP copy doesn't follow ip source-interface via Fa1
<a href="#">CSCvc03110</a>	GUI: Opening tabs in new window gives Admin privilege to Guest User
<a href="#">CSCvc29631</a>	Slogs from video module needs to be throttled
<a href="#">CSCvc69282</a>	Machine check exception handling failed
<a href="#">CSCve89377</a>	RFGW-10 Sup Moka CRC Causes Slot 3-10 Linecard Restarts
<a href="#">CSCvf47351</a>	When the 14 # TCC card is active, the Alarm LED will turn off
<a href="#">CSCvg47973</a>	"Bundle Session" field header is missing in show gqi statistics CLI command
<a href="#">CSCvg79718</a>	show CLI modification to display multicast group IP

## Open Caveats for Cisco IOS-XE Release 3.5.7SQ

Caveat ID Number	Description
<a href="#">CSCve89377</a>	RFGW-10 Sup Moka CRC Causes Slot 3-10 Linecard Restarts.

## Resolved Caveats for Cisco IOS-XE Release 3.5.7SQ

Caveat ID Number	Description
<a href="#">CSCve94296</a>	Adding set and clear alarm message when power supply detects low voltages
<a href="#">CSCve40421</a>	Disable TCC switchover when there is no DTI connection
<a href="#">CSCve51401</a>	DS-384:bb_video crash observed while copying PMT
<a href="#">CSCve77926</a>	PCR PID missing on output when PCR is incoming on separate PID

Caveat ID Number	Description
<a href="#">CSCvd13549</a>	Pixelization on video observed on some Set Top box
<a href="#">CSCvd04799</a>	RFGW10: Rate Limit error messages LC_ERRMSG_VIDEO_UNKNOWN_PROG_NUM Snoop: IN 555, prog 2
<a href="#">CSCve35042</a>	SUP CLI to disable ignorable PSI err msg notifications
<a href="#">CSCve26394</a>	Tier-based encryption error

## Open Caveats for Cisco IOS-XE Release 3.5.6SQ

Caveat	Description
<a href="#">CSCvd13549</a>	Pixelization on video observed on some Set Top box

## Resolved Caveats for Cisco IOS-XE Release 3.5.6SQ

Caveat ID Number	Description
<a href="#">CSCCue46475</a>	4500 switch running IOS-XE crashes after show version running
<a href="#">CSCvd48893</a>	Cisco IOS and IOS XE Software Cluster Management Protocol Remote Code Execution Vulnerability

## Open Caveats for Cisco IOS-XE Release 3.5.5SQ

Caveat	Description
<a href="#">CSCvb81818</a>	Standby SUP crashes when defaulting Video & QAM configurations
<a href="#">CSCvb86285</a>	IOSXE-2-PLATFORM: Active SUP reloads due to cli_agent crash
<a href="#">CSCuv84976</a>	Show CLI not displaying depi session end points

## Resolved Caveats for Cisco IOS-XE Release 3.5.5SQ

Caveat ID Number	Description
<a href="#">CSCuv83472</a>	Annex C-256 QAMS bandwidth NOT working more than 33 Mbps
<a href="#">CSCvc55227</a>	CLI to enable/disable RLD qdepth and QAM oversubscription events for DEPI
<a href="#">CSCuw19675</a>	used_bw shows -ve value during oversubscription with PMT change

Caveat ID Number	Description
<a href="#">CSCvc10738</a>	RF Switch Card removal causes TCC crash
<a href="#">CSCvb95425</a>	Optimising SteelHead 'Rx Buffer Underflow' event handling to avoid service outage
<a href="#">CSCvc83750</a>	RFGW-10 PCR drift causing loss of audio on some subscriber channels
<a href="#">CSCva86389</a>	RFGW-3-BULK_DNLD failure observed with Kernel Dumper configuration

## Open Caveats for Cisco IOS-XE Release 3.5.4SQ

Caveat	Description
<a href="#">CSCvb81818</a>	Standby SUP gets reset when defaulting QAM, video labels, and load balancing group routes.
<a href="#">CSCvb86285</a>	Active Supervisor card fails, but the standby Supervisor card takes over the process.

## Resolved Caveats for Cisco IOS-XE Release 3.5.4SQ

Caveat	Description
<a href="#">CSCsm05024</a>	After running data traffic for several hours, when trying to synchronize configuration, a router processor (RP) switch-over may reload the new standby RP.
<a href="#">CSCul24407</a>	LC Crash with SH Watchdog Expired Error
<a href="#">CSCun32800</a>	On line cards where powerkey encryption is enforced, when running longevity with VOD and SDV churn, error messages similar to the following appear: Requested PID could not be allocated.
<a href="#">CSCuy82194</a>	Active Supervisor Engine crashes when creating ACL for Downstream External PHY Interface (DEPI) route.
<a href="#">CSCuz59967</a>	Active Supervisor Engine fails because of memory corruption.
<a href="#">CSCva77674</a>	The Switch or the Syslog server does not show any alert or warning messages, when the output voltage of the power supply is zero.



Caveat	Description
<a href="#">CSCva77710</a>	Set-top box shows black screen and the following error messages appear in logs because of some configuration changes in the LQAM ID numbers.  %RFGW-3-LINECARD_ERRMSG_ERR: SLOT 7:LC_ERRMSG_VIDEO_PROG_NUM_IN_USE: OUT 4, QAM 73, prog 62351  %RFGW-3-LINECARD_ERRMSG_ERR: SLOT 7:LC_ERRMSG_VIDEO_PSI_BLOCKED Out PAT: id 4, error File exists
<a href="#">CSCvb23962</a>	SNMP traps are not delivered when the output voltage of the power supply is zero.
<a href="#">CSCvb42652</a>	Active Supervisor card fails over to the standby Supervisor.
<a href="#">CSCuz04980</a>	When a line card boots up, the IPC buffer allocated for video process is depleted.
<a href="#">CSCvb48099</a>	Line card fails and automatically recovers because of QNX Kernel exception handling.
<a href="#">CSCva97280</a>	The quality of 4K videos is affected due to macro blocking when streamer server delivers 4K program with fast clock.
<a href="#">CSCuv15286</a>	The DS384 Line card resets with the following error message because of a UPX RF power level that was out of spec: LC_ERRMSG_FAILOVER_TRIGGER UPX
<a href="#">CSCvb49802</a>	SUP CLI implementation for disabling MPEG compliance.
<a href="#">CSCuj94485</a>	TCC card fails to boot up with this error message TCC_ERRMSG_GEN_UCPC_SAME_AS_OCPC and it causes other LC to be not operational. This issue will be seen only during an image upgrade.
<a href="#">CSCux03328</a>	Video line card fails when you shut unshut video src in simulcrypt sessions.

## Open Caveats for Cisco IOS-XE Release 3.5.3SQ

Caveat	Description
<a href="#">CSCuu39578</a>	LCHA reports,RFGW_MCAST:Unable to delete,txint(slot=7, gige=5) not found
<a href="#">CSCuj79992</a>	%IOSXE-2-PLATFORM: process ng_dumper: Process cli_agent

## Resolved Caveats for Cisco IOS-XE Release 3.5.3SQ

Caveat	Description
<a href="#">CSCuy17603</a>	Active SUP crashes due to lcc_send_depi_stats_msg()
<a href="#">CSCuv93397</a>	bb_video LC crash is seen after 12 hours SDV and VOD churn
<a href="#">CSCuy87016</a>	CEM communication through loopback as mgmt ip
<a href="#">CSCuw62801</a>	DS384 line card crash due to P4080 Qam channel Mutex lock not released
<a href="#">CSCuz02016</a>	Dualcrypt : VOD freeze on VSRM Failover for first Crypto Period
<a href="#">CSCuz00779</a>	ECMG connectivity issue when Tenx/9 is in L2 mode
<a href="#">CSCux32246</a>	Handling Missing SUP Switchover interrupt in DS384 LC.
<a href="#">CSCux35295</a>	Kernel core not generated during one Crash trigger instance
<a href="#">CSCuz04733</a>	Macro blocking issue seen on Table Based VOD .
<a href="#">CSCux57341</a>	RFGW-10 does not support ifOutOctet for video qam
<a href="#">CSCuy39698</a>	RFGW-10 DS384 Intermittent VoD Black Screen
<a href="#">CSCuv46928</a>	RFGW-10 Management F1 not pingable after SUP switchover.
<a href="#">CSCuw27865</a>	RFGW-10: CLI for feature, Fail to Clear Duration
<a href="#">CSCuw61253</a>	RFGW-10: encrypted Video freeze after LC Switchover
<a href="#">CSCun12989</a>	SQA3: Observing Sup crash after resetting LC followed by reloading peer
<a href="#">CSCux45679</a>	TACACS encrypts usermane
<a href="#">CSCuw76263</a>	TCC Card crash causes SUP to hang
<a href="#">CSCux32683</a>	To fix ONID configuration discrepancy between VSRM & RFGW10
<a href="#">CSCuv84881</a>	When doing switchover from slot 12 back, DEPI sessions are stuck
<a href="#">CSCuy87141</a>	LC stuck in INIT state on active SUP failover
<a href="#">CSCva24217</a>	IPC leaks in Linecards causing mbuffer depletion leading LC's to reset
<a href="#">CSCva77002</a>	DS384: Stby LC DVB conform , not sync with Primary LC

## Open Caveats for Cisco IOS-XE Release 3.5.1SQ

Caveat	Description
<a href="#">CSCuv84881</a>	When doing switchover from slot 12 back, DEPI sessions are stuck
<a href="#">CSCuu02591</a>	DS-384 card crash due to bb_depi launch too many times (1)
<a href="#">CSCuv46928</a>	RFGW-10 Management F1 not pingable after SUP switchover

## Resolved Caveats for Cisco IOS-XE Release 3.5.1SQ

Caveat	Description
<a href="#">CSCur43251</a>	POODLE protocol-side fix: HTTPS Client
<a href="#">CSCuv13913</a>	RFGW10 - 3.3.1 XPP Error causes loss of forwarding plane no SUP failover
<a href="#">CSCts66733</a>	Crash at TFTP server
<a href="#">CSCus55348</a>	RFGW10 DS-384 keeps crashing when connected with remote switch or 3gspa
<a href="#">CSCus78677</a>	DS-384 crash - process bb_video launch too many times
<a href="#">CSCuu18560</a>	RFGW-10 DS-384 crash command packet channel mismatch and seq number error
<a href="#">CSCuv78230</a>	RFGW-10 DS-384 cpld_align_fifo_underflow did not cause a failover
<a href="#">CSCti71472</a>	MF: flowmgr_pre_flow_processing failed 248 message when turn on service
<a href="#">CSCto69428</a>	Recover for VFE IM portVlanDirectParityError/portVlanHashParityError
<a href="#">CSCuj03989</a>	RFGW-3-UNEXPECTED: STANDBY:RFGW_MCAST: Unable to delete
<a href="#">CSCum95021</a>	DS-384 LC reboots with bb_root.core and io_pkt_v4.core during LC bootstrap
<a href="#">CSCuo89445</a>	LC 12 was disabled and not loading until standby SUP reloaded
<a href="#">CSCuq87910</a>	tcc_dti_stats crash occurred while executing 'show cable clock'
<a href="#">CSCut82422</a>	DS48 LC failed due to yellowfin fatal error
<a href="#">CSCuu02767</a>	RFGW10 - process_video_session_summary - process bb_video launch
<a href="#">CSCuu18788</a>	DATA CORRUPTION-1-DATA INCONSISTENCY when polling ceExtSysBootImageList
<a href="#">CSCuu68010</a>	Interfaces in running config out of order after DS384 failover
<a href="#">CSCuu78415</a>	D6 Protocol crashes on receiving an unsupported messages from NMS server
<a href="#">CSCuv07545</a>	%Error: Unable to change partition binding

Caveat	Description
<a href="#">CSCuv10527</a>	DS384 - Losing heartbeats after executing 'ipc_debug_show_queue_summary'
<a href="#">CSCuw02912</a>	Private section without syntax was not updated
<a href="#">CSCuw24111</a>	UPX High priority event (SET): RF Power Level out of spec
<a href="#">CSCuw48032</a>	SQD01: bb_video launch on config stream having table 0 & 1 in PMT PID
<a href="#">CSCuw39597</a>	Memory allocation Failure in ERRP DB

## Open Caveats for Cisco IOS-XE Release 3.5.0SQ

Caveat	Description
<a href="#">CSCus23396</a>	CPUHOG: Task is running for (2024)msecs, more than (2000)msecs (0/0)
<a href="#">CSCus27753</a>	Multiple server ip's and same ip octet display issue.

## Resolved Caveats for Cisco IOS-XE Release 3.5.0SQ

Caveat	Description
<a href="#">CSCtz44595</a>	DEPI: duplicate depi sessions being created.
<a href="#">CSCus25477</a>	After GQI churn, DVB scrambling encrypt type is not displayed.



