



Release Notes for Cisco IOS Release 12.2(33)SCG for Cisco uBR10012 Routers

April 7 , 2014

Cisco Systems, Inc.

www.cisco.com

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco website at www.cisco.com/go/offices.

THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS.

THE SOFTWARE LICENSE AND LIMITED WARRANTY FOR THE ACCOMPANYING PRODUCT ARE SET FORTH IN THE INFORMATION PACKET THAT SHIPPED WITH THE PRODUCT AND ARE INCORPORATED HEREIN BY THIS REFERENCE. IF YOU ARE UNABLE TO LOCATE THE SOFTWARE LICENSE OR LIMITED WARRANTY, CONTACT YOUR CISCO REPRESENTATIVE FOR A COPY.

The Cisco implementation of TCP header compression is an adaptation of a program developed by the University of California, Berkeley (UCB) as part of UCB's public domain version of the UNIX operating system. All rights reserved. Copyright © 1981, Regents of the University of California.

NOTWITHSTANDING ANY OTHER WARRANTY HEREIN, ALL DOCUMENT FILES AND SOFTWARE OF THESE SUPPLIERS ARE PROVIDED "AS IS" WITH ALL FAULTS. CISCO AND THE ABOVE-NAMED SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THOSE OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE.

IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CISCO OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

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)

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.

Release Notes for Cisco IOS Release 12.2(33)SCG for Cisco uBR10012 Routers
© 2012-2014 Cisco Systems, Inc. All rights reserved.



CHAPTER 1

Introduction 1-1

- System Requirements **1-1**
 - Memory Requirements **1-2**
 - Hardware Supported **1-2**
 - Cable Interface Line Cards Supported **1-2**
 - Other Hardware Supported **1-5**
 - Verifying the Software Version **1-5**
 - Upgrading to a New Software Release **1-5**
 - Microcode Software **1-6**
 - SPA FPD Image Packages for the Cisco uBR10012 **1-6**
 - Upgrading from PRE2 to PRE4 Processors **1-6**
 - Upgrading from Cisco IOS Release 12.3BC or Earlier Cisco IOS Software Release **1-6**
 - Feature Support **1-7**
 - Cisco CMTS User Documentation References for Cisco IOS Release 12.2SC **1-7**
 - Cisco Feature Navigator **1-8**
- New and Changed Information **1-10**
 - New Hardware Features in Cisco IOS Release 12.2(33)SCG7 **1-10**
 - New Hardware Features in Cisco IOS Release 12.2(33)SCG6 **1-11**
 - New Hardware Features in Cisco IOS Release 12.2(33)SCG5 **1-11**
 - New Hardware Features in Cisco IOS Release 12.2(33)SCG4 **1-11**
 - New Hardware Features in Cisco IOS Release 12.2(33)SCG3 **1-11**
 - New Hardware Features in Cisco IOS Release 12.2(33)SCG2 **1-11**
 - New Hardware Features in Cisco IOS Release 12.2(33)SCG1 **1-11**
 - New Hardware Features in Cisco IOS Release 12.2(33)SCG **1-11**
 - New Software Features in Cisco IOS Release 12.2(33)SCG7 **1-11**
 - New Software Features in Cisco IOS Release 12.2(33)SCG6 **1-11**
 - Standby DTCC card failure alarm **1-11**
 - New Software Features in Cisco IOS Release 12.2(33)SCG5 **1-12**
 - MIB Enhancements for USCB CM **1-12**
 - Upstream Drop Classifier **1-12**
 - New Software Features in Cisco IOS Release 12.2(33)SCG4 **1-12**
 - New Software Features in Cisco IOS Release 12.2(33)SCG3 **1-12**
 - New Software Features in Cisco IOS Release 12.2(33)SCG2 **1-13**
 - Cable Modem System Description **1-13**
 - Copy and Paste Support for TDMA to A-TDMA Upgrade **1-13**

Downstream Wideband Resiliency Trap	1-13
Physical Channel Interface Mapping	1-14
Reload PXF in the Standby PRE Periodically	1-14
New Software Features in Cisco IOS Release 12.2(33)SCG1	1-14
Load Balancing for the Cisco uBR-MC3GX60V Line Card and Cisco Wideband SPA	1-14
Multiple IAPDs in a Single Advertise	1-15
New Software Features in Cisco IOS Release 12.2(33)SCG	1-15
Background Synchronization	1-15
DOCSIS 3.0 DSG MDF Support	1-16
Downstream Channel Sharing Across Cisco uBR-MC3GX60V Line Cards and Cisco Wideband SPAs	1-16
Downstream Resiliency Bonding Group	1-16
FQDN and DSG Name Process	1-17
Index and DS Resource Debug Enhancements	1-17
Input MQC Support on the Cable Bundle Interfaces	1-18
Inter-area MPLS TE Tunnel Support On CMTS	1-18
IOFPGA Firmware Auto Upgrade on Cisco ESR-PRE4 Modules	1-18
IPDR Enhancement	1-19
IPv6 Address Packet Intercept	1-19
ISSU Enhancement	1-19
MPLS QoS via TLV for non-L2VPN Service Flow	1-20
Optimized Downstream Queues for High Speed Services	1-20
SFP Module Link Status Traps and DEPI Tunnel Control MIB	1-20
Upstream Channel Bonding show CLI Enhancement	1-20
Upstream Channel Resiliency for RTPS Service Flows	1-21
Features Integrated into Cisco IOS Release 12.2(33)SCG6	1-21
Disabling Upstream Load Balancing for DOCSIS 3.0 Modems	1-21
Features Integrated into Cisco IOS Release 12.2(33)SCG5	1-22
Upstream Channel Descriptor TLV for Ranging Hold-off	1-22
Features Integrated into Cisco IOS Release 12.2(33)SCG1	1-22
DEPI CIN Failover	1-22
DHCPv6 with Full 6VPE Support	1-22
Features Integrated into Cisco IOS Release 12.2(33)SCG	1-23
Cable Modem Registration Throttling	1-23
Configurable DHCPv6 Relay Address	1-23
DOCSIS Extended Transmit Power Feature	1-23
DSG Disablement for Hybrid STBs	1-24
DSx Support for L2VPN-enabled CMs	1-24
MDF1 Support for DOCSIS 2.0 Hybrid Cable Modems	1-24
Move Secondary Service Flows to the Primary Channel Interface	1-24

Moving CMs Configured with IGMP and RSVP (test cable dcc force Command)	1-25
PRE High Availability Enhancement	1-25
Service Class Relay Agent Option	1-25
Support for 256 Legacy LBGs	1-25
Support for IPv6 Prefix Stability on the CMTS	1-26
Unitary DHCPv6 Leasequery	1-26
Upstream Buffer Control for Maximum Queue Depth	1-26
Modified Software Features in Cisco IOS Release 12.2(33)SCG1	1-27
Modified Software Features in Cisco IOS Release 12.2(33)SCG	1-27
MIBs	1-27
New and Changed MIB Information in Cisco IOS Release 12.2(33)SCG	1-27
Limitations and Restrictions	1-27
Unsupported Hardware	1-28
Software Feature Restrictions	1-28
DOCSIS 3.0 Load Balancing	1-28
DOCSIS	1-28
DTI Card Configuration	1-28
MIBs Restrictions	1-28
PacketCable	1-29
PXF	1-29
Redundancy	1-29
Wideband	1-29
Important Notes	1-30
Documentation Updates in Cisco IOS Release 12.2(33)SCG	1-30
Cable Upstream DOCSIS Mode	1-30
show interface gigabitethernet Command	1-30
IP Packets and Cisco CMTS Buffer Size	1-30
Obtaining Documentation and Submitting a Service Request	1-30

CHAPTER 2**Caveat List for Cisco IOS Release 12.2(33)SCG 2-1**

Open Caveats—Cisco IOS Release 12.2(33)SCG7	2-1
Resolved Caveats—Cisco IOS Release 12.2(33)SCG7	2-5
Open Caveats—Cisco IOS Release 12.2(33)SCG6	2-8
Resolved Caveats—Cisco IOS Release 12.2(33)SCG6	2-13
Open Caveats—Cisco IOS Release 12.2(33)SCG5	2-16
Resolved Caveats—Cisco IOS Release 12.2(33)SCG5	2-22
Open Caveats—Cisco IOS Release 12.2(33)SCG4	2-25
Resolved Caveats—Cisco IOS Release 12.2(33)SCG4	2-40
Open Caveats—Cisco IOS Release 12.2(33)SCG3	2-40

Resolved Caveats—Cisco IOS Release 12.2(33)SCG3 2-57

Open Caveats—Cisco IOS Release 12.2(33)SCG2 2-57

Resolved Caveats—Cisco IOS Release 12.2(33)SCG2 2-73

Open Caveats—Cisco IOS Release 12.2(33)SCG1 2-80

Resolved Caveats—Cisco IOS Release 12.2(33)SCG1 2-91

Open Caveats—Cisco IOS Release 12.2(33)SCG 2-95

Resolved Caveats—Cisco IOS Release 12.2(33)SCG 2-98



Introduction

This release notes contain information about downloading and installing Cisco IOS Release 12.2(33)SCG. It also provides new and changed information, hardware support, limitations and restrictions, and caveats for Cisco IOS Release 12.2(33)SCG.

For software caveats that apply to the Cisco IOS Release 12.2(33)SCG on the Cisco uBR7200 series routers, see the corresponding release notes for Cisco uBR7200 Series Routers.

We recommend 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/customer/support/tsd_products_field_notice_summary.html.

If you do not have a Cisco.com login account, you can find field notices at http://www.cisco.com/en/US/support/tsd_products_field_notice_summary.html.



Note

Cisco IOS Release 12.2(33)SCG is generally available for field deployment. However, we recommend that you validate and qualify Cisco IOS Release 12.2(33)SCG in a limited field trial with your specific network configuration requirements in order to ensure a smoother, faster, and successful field deployment.

This chapter includes the following sections:

- [System Requirements, page 1](#)
- [New and Changed Information, page 10](#)
- [MIBs, page 27](#)
- [Limitations and Restrictions, page 27](#)
- [Important Notes, page 30](#)
- [Obtaining Documentation and Submitting a Service Request, page 31](#)

System Requirements

These sections describe the system requirements for Cisco IOS Release 12.2(33)SCG:

- [Memory Requirements, page 2](#)
- [Hardware Supported, page 2](#)
- [Verifying the Software Version, page 5](#)
- [Upgrading to a New Software Release, page 5](#)

- [Microcode Software, page 6](#)
- [Feature Support, page 7](#)

Memory Requirements

This section describes the memory requirements for Cisco IOS Release 12.2(33)SCG.



Note

Effective with Cisco IOS Release 12.2(33)SCC, the image size is greater than 65 MB and requires TFTP servers capable of downloading large images.

[Table 1-1](#) displays the memory recommendations for the Cisco uBR10012 universal broadband router with Cisco IOS Release 12.2(33)SCG feature sets.

Table 1-1 *Memory Recommendations for the Cisco uBR10012 Router*

Feature Set	Cisco uBR10012 Route Processor	Software Image	Recommended Flash Memory	Recommended DRAM Memory ¹	Runs From
DOCSIS Base 3 DES image and Lawful Intercept for Cisco PRE4 ²	PRE4	ubr10k4-k9p6u2-mz	128 MB	2.0 GB	RAM
DOCSIS BPI and Lawful Intercept for Cisco PRE4	PRE4	ubr10k4-k8p6u2-mz	128 MB	2.0 GB	RAM

1. DRAM memory is not configurable on the Cisco uBR10012 router.
2. PRE = Processor Routing Engine

Hardware Supported

The following sections list the hardware supported on various Cisco IOS Releases:

- [Cable Interface Line Cards Supported, page 2](#)
- [Microcode Software, page 6](#)
- [Other Hardware Supported, page 5](#)

Cable Interface Line Cards Supported

[Table 1-2](#) provides information about the supported cable interface line cards and processor engines in Cisco IOS Release 12.2(33)SCG.

Table 1-2 *Supported Cable Interface Line Cards and Processor Engines*

Supported Line Card	Supported Processor Engine
Cisco UBR-MC5X20H—maximum 8	PRE4
Cisco UBR-MC20X20—maximum 8	PRE4
Cisco uBR-MC3GX60V—maximum 8	PRE4

OIR of Cable Interface Line Cards on the Cisco uBR10012 Universal Broadband Router

The Cisco uBR10012 series universal broadband routers support online insertion and removal (OIR) of cable interface line cards only when exchanging cable interface line cards of the same type.

Effective with Cisco IOS Release 12.2(33)SCC, OIR compatibility between the Cisco uBR10-MC5X20 and the Cisco UBR-MC20X20V line cards is supported. The OIR compatibility procedure translates the configuration from one format to another during the OIR process.

Prerequisites for Performing OIR

- Save the line card configuration before starting the OIR.
- Perform OIR when the CMTS is up and running.
- Change the standby card (if available) to HOT state.
- Save the startup configuration file before any reload of the system (if there is a need to reload), after a successful OIR.

Restrictions During OIR Process



Note

The Cisco uBR-MC3GX60V line card does not support OIR compatibility. To upgrade to the Cisco uBR-MC3GX60V line card from the Cisco uBR10-MC5X20H or Cisco UBR-MC20X20V line cards, you must remove the existing configuration of the line card using the **no card** command and create a new configuration for the Cisco uBR-MC3GX60V line card.

- OIR upgrade cannot be performed when the standby PRE is being loaded.
- OIR downgrade from the Cisco UBR-MC20X20V line card to the Cisco uBR10-MC5X20 line card may fail in certain scenarios when the frequency and RF power settings on the Cisco UBR-MC20X20V line card are incompatible with the Cisco uBR10-MC5X20 card.

Performing an OIR of a Cable Interface Line Card

- Step 1** In global configuration mode, enter the **cr10k card oir-compatibility** command for the cable interface line card to perform an OIR, as shown in the following example:

```
Router(config)# cr10k card 8/0 oir-compatibility
```

This command helps preserve the configuration and performs some internal synchronization to make sure that the OIR runs successfully.



Note Effective with Cisco IOS Release 12.2(33)SCC, OIR compatibility is automatically ON for all slots of the line cards.

- Step 2** Save the configuration to ensure the transition, as shown in the following example:

```
Router# copy running-config startup-config
```

- Step 3** Turn the power off to the line card using the **cable power off** command for the slot that is being replaced, as shown in the following example:

```
Router# cable power off 8/0
Line Card 8/0 is POWERED OFF
```

This powers off the line card gracefully.

Step 4 Before removing the card, verify that the proper grounding instructions have been followed for the card.

Step 5 Remove the line card.

Step 6 Replace it with the new line card in the slot.

Step 7 Enter the **cable power on** command to power up the line card, as shown in the following example:

```
Router# cable power on 8/0
```

Step 8 Enter the **show interface cable** command and verify that the card and line protocol is “up” as shown in the following example:

```
Router# show interface cable 8/0/0
```

```
Cable8/0/0 is up, line protocol is up
Hardware is BCM3210 ASIC, address is 000a.13e8.1ca8 (bia 000a.13e8.1a60)
Internet address is 10.1.1.3/24
MTU 1500 bytes, BW 27000 Kbit, DLY 1000 usec, rely 255/255, load 1/255
Encapsulation, loopback not set, keepalive not set
ARP type: ARPA, ARP Timeout 04:00:00
Last input 4d07h, output 00:00:00, output hang never
Last clearing of "show interface" counters never
Queuing strategy: fifo
Output queue 0/40, 0 drops; input queue 0/75, 0 drops
5 minute input rate 1834000 bits/sec, 2385 packets/sec
5 minute output rate 1982000 bits/sec, 2431 packets/sec
 24461542 packets input, 2348214388 bytes, 0 no buffer
  Received 1979 broadcasts, 0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
24854257 packets output, 2536222931 bytes, 0 underruns
  0 output errors, 0 collisions, 0 interface resets
  0 output buffer failures, 0 output buffers swapped out
```

Step 9 Enter the **show controllers cable** command and verify the hardware status, as shown in the following example:

```
Router# show controllers cable 8/0/0
```

```
Cable8/0/0 JIB hardware status:
  JIB Downstream port  Enabled
  JIB Upstream  port 0  Enabled
  JIB Upstream  port 1  Enabled
  JIB Upstream  port 2  Enabled
  JIB Upstream  port 3  Enabled
Cable8/0/0 Upconverter is Enabled Output is Enabled
Model: 74-3153-02 Serial Number: 0WAV090200A1 CLEI Code: FFFFFFFF
HW Rev: PC2D0109 SW Rev: 203, NVRAM Rev: 021 ECI numb
```



Note To verify the hardware status of the Cisco UBRMC20X20V cable line cards, it is recommended that you run the **show controller integrated-cable 8/0/0 brief** command instead of the **show controllers cable** command.

Step 10 Verify the configuration with the **show running-configuration** command.

Other Hardware Supported

Table 1-3 provides information about other hardware supported in Cisco IOS Release 12.2SC.

Table 1-3 Other Hardware Supported in Cisco IOS Release 12.2SC

Hardware	Cisco uBR10012 Router	Minimum Cisco IOS Release
Cisco Wideband SIP and Cisco Wideband SPA	Yes	Cisco IOS Release 12.2(33)SCA
Cisco uBR10012 universal broadband router DTCC card	Yes	Cisco IOS Release 12.2(33)SCB
Cisco uBR10012 universal broadband router TCC+ card	Yes	Cisco IOS Release 12.2(33)SCA
Cisco 10000 Series SIP-600 and WAN SPAs (5-Port Gigabit Ethernet and the 1-Port 10 Gigabit Ethernet SPAs)	Yes	Cisco IOS Release 12.2(33)SCB
Cisco 10000 Series SIP-600 with the Cisco Wideband SPA	Yes	Cisco IOS Release 12.2(33)SCB

Verifying the Software Version

To determine the version of the Cisco IOS software running on your Cisco universal broadband router, log in to the router and enter the **show version EXEC** command:

```
Router# show version
```

```
Cisco IOS Software, 10000 Software (UBR10K4-K9P6U2-M), Version 12.2(33)SCG
EXPERIMENTAL IMAGE ENGINEERING C10K_WEEKLY BUILD, synced to
MAYFLOWER_BASE_FOR_V122_33_SF_THROTTLE
Copyright (c) 1986-2012 by Cisco Systems, Inc.
```

```
ROM: System Bootstrap, Version 12.4(12.2r)T, RELEASE SOFTWARE (fc1)
```

Upgrading to a New Software Release

For information about selecting a new Cisco IOS software release, see "How to Choose a Cisco IOS Software Release" at the following location:

http://www.cisco.com/en/US/products/sw/iosswrel/ps1834/products_tech_note09186a00800fb9d9.shtml

For information about upgrading the Cisco universal broadband routers, see the *Software Installation and Upgrade Procedures* document at the following location:

http://www.cisco.com/en/US/products/hw/routers/ps133/products_tech_note09186a0080094c07.shtml

For Cisco IOS upgrade ordering instructions, see:

http://www.cisco.com/web/ordering/or13/order_customer_help_high_level_listing.html

To choose a new Cisco IOS software release based on information about defects that affect that software, use Cisco Bug Search Tool (BST) at the following URL:

<https://tools.cisco.com/bugsearch/>

Microcode Software

This section describes microcode software that is supported for the Cisco uBR10012 router.

SPA FPD Image Packages for the Cisco uBR10012

The field-programmable device (FPD) image packages are used to update the shared port adapter (SPA) FPD images. If a discrepancy exists between a SPA FPD image and the Cisco IOS image that is running on the router, the SPA is deactivated until this discrepancy is resolved.


Note

The maximum time to upgrade the FPD image on one SPA is 2 minutes. The total FPD upgrade time depends on the number of SPAs.


Note

The FPD image package that is used to upgrade SPAs on a router that runs Cisco IOS Release 12.2(33)SCG is the ubr10k-fpd-pkg.122-33.SCG pkg file.

Table 1-4 Cisco IOS Release 12.2SC Shared Port Adapter FPD Image Package Contents

Supported SPAs	FPD ID	FPD Component Name	FPD Component Version	Minimum Required Hardware Version
5-Port Gigabit Ethernet SPA	1	I/O FPGA	1.10	0.0
1-Port 10-Gigabit Ethernet SPA	1	I/O FPGA	1.9	0.0
Cisco Wideband SPA	1	BLAZE FPGA	1285.1446	0.0

Upgrading from PRE2 to PRE4 Processors


Note

Starting with Cisco IOS Release 12.2(33)SCG, only PRE4 is supported.

A cold start of the router is required for an upgrade to a PRE4 from a PRE2 on a Cisco uBR10012 universal broadband router from a different release train, such as Cisco IOS Release 12.3(23)BC or other BC releases.

For more information, see *Cisco uBR10012 Universal Broadband Router Performance Routing Engine Module* at:

http://www.cisco.com/en/US/docs/interfaces_modules/cable/performance_routing_engine/installation/guide/pre5096.html

Upgrading from Cisco IOS Release 12.3BC or Earlier Cisco IOS Software Release

For more information, see the *Cisco uBR10012 Router Release Notes for Cisco IOS Release 12.2(33)SCA* at the following URL:

http://www.cisco.com/en/US/products/hw/cable/ps2209/prod_release_notes_list.html

Feature Support

Cisco IOS software is packaged in feature sets that consist of software images that support specific platforms. The feature sets available for a specific platform depend on which Cisco IOS software images are included in a release. Each feature set contains a specific set of Cisco IOS features.



Caution

Cisco IOS images with strong encryption (including, but not limited to 168-bit [3DES] data encryption feature sets) are subject to U.S. government export controls and have limited distribution. Strong encryption images to be installed outside the United States are likely to require an export license. Customer orders may be denied or subject to delay because of U.S. government regulations. When applicable, the purchaser or user must obtain local import and use authorizations for all encryption strengths. Please contact your sales representative or distributor for more information, or send an e-mail to export@cisco.com.

Cisco CMTS User Documentation References for Cisco IOS Release 12.2SC

Table 1-5 provides information about the important user guides in Cisco IOS Release 12.2SC.

Table 1-5 Important Guides in Cisco IOS Release 12.2SC

Guide	Description
Documentation Roadmap	Describes a set of Cisco CMTS documents and contains links to the referenced documents. Go to the following link to access this document: http://www.cisco.com/c/en/us/td/docs/cable/cmts/ubr10012/roadmap/u10krdmp.html
Command Reference	Provides information about the software commands used to configure a Cisco CMTS. Includes command syntax, default value, value range, command mode, usage guidelines, and examples. Go to the following link to access this document: http://www.cisco.com/c/en/us/td/docs/cable/cmts/cmd_ref/b_cmts_cable_cmd_ref.html
Design Guides	Describes how to plan, install, and configure a Cisco CMTS. Contains information about the supported technologies, interfaces and protocols and can also contain special installation considerations, network diagrams, example applications, system design, and environmental recommendations. Go to the following link to access this document set: http://www.cisco.com/c/en/us/support/video/ubr10000-series-universal-broadband-routers/products-implementation-design-guides-list.html

Guide	Description
Install and Upgrade Guides	<p>Provides step-by-step instructions for installing or upgrading a Cisco CMTS. Also includes line card installation guides, shipping documents, safety information, and quick-start guides for experienced users.</p> <p>Go to the following link to access this document set: http://www.cisco.com/c/en/us/support/video/ubr10000-series-universal-broadband-routers/products-installation-guides-list.html</p> <p>Important guides in this section are:</p> <ul style="list-style-type: none"> • Cisco uBR10012 Universal Broadband Router Hardware Installation Guide • Cisco uBR10012 Universal Broadband Router SIP and SPA Hardware Installation Guide
Configuration Guides	<p>Contains detailed, step-by-step instructions for configuring a Cisco CMTS, including software feature guides, configuration examples, network diagrams, and technical concepts.</p> <p>Go to the following link to access this document set: http://www.cisco.com/en/US/products/hw/cable/ps2209/products_installation_and_configuration_guides_list.html</p> <p>Important guides in this section are:</p> <ul style="list-style-type: none"> • Cisco uBR10012 Universal Broadband Router SIP and SPA Software Configuration Guide • Cisco IOS CMTS Cable Software Configuration Guide, Release 12.2SC
Error and System Messages	<p>Lists error and system messages for a Cisco CMTS, including any recommended user action for each message.</p> <p>Go to the following link to access this document: http://www.cisco.com/en/US/docs/cable/cmts/system/message/uberrmes.html</p>
Troubleshooting Guides	<p>Provides problem-solving techniques for a Cisco CMTS, including methods to identify problems based on symptoms and recommended actions for resolution.</p> <p>Go to the following link to access this document set: http://www.cisco.com/en/US/products/hw/cable/ps2209/prod_troubleshooting_guides_list.html</p> <p>Important guides in this section are:</p> <ul style="list-style-type: none"> • http://www.cisco.com/c/en/us/td/docs/cable/cmts/ubr10012/troubleshooting/guide_SC_HW/u10trbk_SC.html • Online Offline Diagnostics - Field Diagnostics on Cisco uBR10012 Router User's Guide

Cisco Feature Navigator

The Cisco Feature Navigator is a web-based tool that enables you to determine which Cisco IOS software images support a specific set of features and which features are supported in a specific Cisco IOS image. You can search by feature or by feature set (software image). Under the release section, you can compare Cisco IOS software releases side-by-side to display both the features unique to each software release and the features that the releases have in common.

To access the Cisco Feature Navigator, 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. 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:

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

The Cisco Feature Navigator is updated regularly when major Cisco IOS software releases and technology releases occur. For the most current information, go to the Cisco Feature Navigator home page at the following URL:

<http://tools.cisco.com/ITDIT/CFN/jsp/index.jsp>

For frequently asked questions about the Cisco Feature Navigator, see the FAQs at the following URL:

<http://www.cisco.com/support/FeatureNav/FNFAQ.html>

Determining Which Software Images Support a Specific Feature

To identify the software images (feature sets) in Cisco IOS Release 12.2(33)SC that support a specific feature:

-
- Step 1** Go to the Cisco Feature Navigator home page. Enter your Cisco.com login.
 - Step 2** Click **Search by Feature**.
 - Step 3** To find a feature, use either **Filter by full or partial feature name** or search for available features in alphabetical order. Either a list of features that match the search criteria or a list of features that begin with the number or letter selected from the ordered list is displayed in the text box.
 - Step 4** Select a feature from the Available Features pane, and click **Add** to add a feature to the Selected Features pane.



Note To learn more about a feature in the list, click **Show Descriptions**.

Repeat this step to add additional features. A maximum of 20 features can be chosen for a single search.

- Step 5** Click **Continue** when you are finished selecting features.
 - Step 6** From the Major Release drop-down menu, choose **12.2SC**.
 - Step 7** From the Release drop-down menu, choose the appropriate maintenance release.
 - Step 8** From the Platform Family drop-down menu, select the appropriate hardware platform. The **Search Results** table lists all the software images (feature sets) that support the selected feature.
-

Determining Which Features Are Supported in a Specific Software Image

To determine the features supported in a specific software image (feature set) in Cisco IOS Release 12.2(33)SC:

-
- Step 1** Go to the Cisco Feature Navigator home page. Enter your Cisco.com login.
 - Step 2** Click **Compare Images**.
 - Step 3** From the Software drop-down menu in the **Select First Image Parameters** pane, choose **IOS**.

- Step 4** From the Major Release drop-down menu, choose **12.2SC**.
- Step 5** From the Release Number drop-down menu, choose the appropriate maintenance release.
- Step 6** From the Platform Family drop-down menu, choose the appropriate hardware platform.
- Step 7** From the Feature Set drop-down menu, choose the appropriate feature set. The **Search Results** table lists all the features that are supported by the selected feature set (software image).
-

New and Changed Information

The following sections list the new and modified hardware and software features supported on the Cisco uBR10012 universal broadband routers in Cisco IOS Release 12.2(33)SCG:

- [New Hardware Features in Cisco IOS Release 12.2\(33\)SCG7, page 10](#)
- [New Hardware Features in Cisco IOS Release 12.2\(33\)SCG6, page 11](#)
- [New Hardware Features in Cisco IOS Release 12.2\(33\)SCG5, page 11](#)
- [New Hardware Features in Cisco IOS Release 12.2\(33\)SCG4, page 11](#)
- [New Hardware Features in Cisco IOS Release 12.2\(33\)SCG3, page 11](#)
- [New Hardware Features in Cisco IOS Release 12.2\(33\)SCG2, page 11](#)
- [New Hardware Features in Cisco IOS Release 12.2\(33\)SCG1, page 11](#)
- [New Hardware Features in Cisco IOS Release 12.2\(33\)SCG, page 11](#)
- [New Software Features in Cisco IOS Release 12.2\(33\)SCG7, page 11](#)
- [New Software Features in Cisco IOS Release 12.2\(33\)SCG6, page 11](#)
- [New Software Features in Cisco IOS Release 12.2\(33\)SCG5, page 12](#)
- [New Software Features in Cisco IOS Release 12.2\(33\)SCG4, page 12](#)
- [New Software Features in Cisco IOS Release 12.2\(33\)SCG3, page 12](#)
- [New Software Features in Cisco IOS Release 12.2\(33\)SCG2, page 13](#)
- [New Software Features in Cisco IOS Release 12.2\(33\)SCG1, page 14](#)
- [New Software Features in Cisco IOS Release 12.2\(33\)SCG, page 15](#)
- [Features Integrated into Cisco IOS Release 12.2\(33\)SCG5, page 22](#)
- [Features Integrated into Cisco IOS Release 12.2\(33\)SCG1, page 22](#)
- [Features Integrated into Cisco IOS Release 12.2\(33\)SCG, page 23](#)
- [Modified Software Features in Cisco IOS Release 12.2\(33\)SCG1, page 27](#)
- [Modified Software Features in Cisco IOS Release 12.2\(33\)SCG, page 27](#)

New Hardware Features in Cisco IOS Release 12.2(33)SCG7

There are no new hardware features in Cisco IOS Release 12.2(33)SCG7.

New Hardware Features in Cisco IOS Release 12.2(33)SCG6

There are no new hardware features in Cisco IOS Release 12.2(33)SCG6.

New Hardware Features in Cisco IOS Release 12.2(33)SCG5

There are no new hardware features in Cisco IOS Release 12.2(33)SCG5.

New Hardware Features in Cisco IOS Release 12.2(33)SCG4

There are no new hardware features in Cisco IOS Release 12.2(33)SCG4.

New Hardware Features in Cisco IOS Release 12.2(33)SCG3

There are no new hardware features in Cisco IOS Release 12.2(33)SCG3.

New Hardware Features in Cisco IOS Release 12.2(33)SCG2

There are no new hardware features in Cisco IOS Release 12.2(33)SCG2.

New Hardware Features in Cisco IOS Release 12.2(33)SCG1

There are no new hardware features in Cisco IOS Release 12.2(33)SCG1.

New Hardware Features in Cisco IOS Release 12.2(33)SCG

There are no new hardware features in Cisco IOS Release 12.2(33)SCG.

New Software Features in Cisco IOS Release 12.2(33)SCG7

There are no new hardware features in Cisco IOS Release 12.2(33)SCG7.

New Software Features in Cisco IOS Release 12.2(33)SCG6

This section describes the new cable software feature in Cisco IOS Release 12.2(33)SCG6:

Standby DTCC card failure alarm

Effective with Cisco IOS Release 12.2(33) SCG6, if the clock status of the standby DTCC reference is lost or bad, a warning message is reported.

The Standby DTCC card failure alarm feature allows the IOS to check the status of the standby DTCC periodically and report a warning message. If the clock status of the standby DTCC reference is lost or bad, the following message is displayed:

```
“%UBR10KTCC-4-BADCLK_STANDBY_TCC: No available external clock reference on the standby DTCC card “
```

For more details, see Cisco IOS CMTS Cable System Messages Guide at the URL:
<http://www.cisco.com/en/US/docs/cable/cmts/system/message/uberrchap3.html>

New Software Features in Cisco IOS Release 12.2(33)SCG5

This section describes the new cable software features in Cisco IOS Release 12.2(33)SCG5:

MIB Enhancements for USCB CM

In Cisco IOS Release 12.2(33)SCG5, MIB enhancements for upstream channel bonding group (USCB) cable modems (CMs) is implemented. The MIB enhancement provides Transmit Channel Set (TCS) and service flow information.

For more information, see Cisco CMTS Universal Broadband Router Series MIB Specifications Guide at:

http://www.cisco.com/en/US/docs/cable/cmts/mib/12_2sc/reference/guide/ubrmibv5.html

Upstream Drop Classifier

A set of matching criteria is applied by the cable modems to packets to determine if a packet should be dropped. This set of matching criteria when applied to upstream traffic, is called the Upstream Drop Classifier (UDC). The CMTS only enables the UDC feature on the cable modems.

Effective with Cisco IOS Release 12.2(33)SCG5, the UDC feature can be enabled for all cable modems on any interface of a Cisco uBR10012 or Cisco 7200 Series router by using the **cable udc-capability** command in interface configuration mode.

The following command was introduced or modified:

- **cable udc-capability**
- **show cable modem**

For more information on the UDC feature, refer to the *Configuring Upstream Cable Interface Features on the Cisco CMTS Routers* guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/cmts_upstrm_if.html

New Software Features in Cisco IOS Release 12.2(33)SCG4

There are no new software features in Cisco IOS Release 12.2(33)SCG4.

New Software Features in Cisco IOS Release 12.2(33)SCG3

There are no new software features in Cisco IOS Release 12.2(33)SCG3.

New Software Features in Cisco IOS Release 12.2(33)SCG2

This section describes the new cable software features in Cisco IOS Release 12.2(33)SCG2.

Cable Modem System Description

The **show cable modem sysDescr** command, introduced in Cisco IOS Release 12.2(33)SCG2, provides the system description of a single cable modem without enabling remote query on the Cisco CMTS router. The **show cable modem sysDescr** command displays result for IPv4 cable modems only.

In Cisco IOS Release 12.2(33)SCG1 and earlier, you cannot view the system description of a single cable modem. Instead, you can view system descriptions of all cable modems after enabling remote query on the Cisco CMTS router using the **cable modem remote-query** command in global configuration mode. This might impact system performance because it queries all the cable modems connected to the Cisco CMTS router.

For more details about the **show cable modem sysDescr** command, see the *Cisco IOS CMTS Cable Command Reference* at:

http://www.cisco.com/en/US/docs/ios/cable/command/reference/cbl_16_show_cable_m_to_show_cable_u.html

Copy and Paste Support for TDMA to A-TDMA Upgrade

To have the 6400 kHz channel width accepted by pasting the configuration only once, Cisco IOS Release 12.2(33)SCG2 introduces the Copy and Paste Support for TDMA to A-TDMA Upgrade feature. If 6400 kHz is set as channel width in TDMA mode or mixed TDMA/A-TDMA mode, DOCSIS mode automatically changes to A-TDMA-only (DOCSIS 2.0) mode.

The following commands were modified:

- **cable upstream channel-width**
- **cable upstream docsis-mode**

For more information, see *Configuring Upstream Cable Interface Features on the Cisco CMTS Routers* configuration guide at:

- http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/cmts_upstrm_if.html

Downstream Wideband Resiliency Trap

Downstream Wideband Resiliency Trap feature enables SNMP traps for Wideband Resiliency-related events and setting of the trap interval.

The following commands were introduced or modified:

- **cable resiliency traps-interval**
- **snmp-server enable traps docsis-resil**
- **snmp-server host traps docsis-resil**

For more information, see the *Wideband Modem Resiliency* feature guide at:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/ubr_wm_resiliency.html

The following MIB tables and objects are added for the wideband resiliency feature. These MIB objects can be queried when the Cisco CMTS detects a RF channel impairment:

- `cdxWBResilRFChangeDampenTime`

- cdxWBResilRFChangeTriggerPercentage
- cdxWBResilRFChangeTriggerCount
- cdxWBResilRFChangeTriggerMoveSecondary

The following traps have been added:

- cdxWBResilRFDown
- cdxWBResilRFUp
- cdxWBResilCMPartialServiceNotif
- cdxWBResilCMFullServiceNotif
- cdxWBResilEvent

For more information, see *Cisco CMTS Universal Broadband Router Series MIB Specifications Guide 12.2SC* at:

http://www.cisco.com/en/US/docs/cable/cmts/mib/12_2sc/reference/guide/ubrmibv5.htm

Physical Channel Interface Mapping

This feature provides an SNMP interface to access information between the physical channel interface and the primary channel interface. The following MIB objects of the CISCO-DOCS-EXT-MIB object can be queried for information about the physical channel interface and the primary channel interface.

- cdxRFtoPrimaryChannelMappingTable
- cdxPrimaryChanneltoRFMappingTable

For more information, see *Cisco CMTS Universal Broadband Router Series MIB Specifications Guide 12.2SC* at:

http://www.cisco.com/en/US/docs/cable/cmts/mib/12_2sc/reference/guide/ubrmibv5.html

Reload PXF in the Standby PRE Periodically

Reload PXF in the Standby PRE feature fixes most of the double-hit IRAM parity errors by reloading the Parallel Express Forwarding (PXF) in the standby PRE. The PXF can be reloaded periodically, or by a process based on timeout events, in the standby PRE.

The following new command was added:

periodic rel-pxf enable

For more information, see Route Processor Redundancy feature guide at:

<http://www.cisco.com/en/US/docs/cable/cmts/feature/u10krpr.html>

New Software Features in Cisco IOS Release 12.2(33)SCG1

Load Balancing for the Cisco uBR-MC3GX60V Line Card and Cisco Wideband SPA

Effective with Cisco IOS Release 12.2(33)SCG1, the Cisco uBR-MC3GX60V line card and up to five Cisco Wideband SPAs can be configured to the same LBG. You can:

- Include all the downstreams and upstreams of the SPA cards and the Cisco uBR-MC3GX60V line card in the same LBG.

- Configure the MAC domain to include the SPA cards and the Cisco uBR-MC3GX60V line card.
- Configure the fiber node to include all the downstreams and upstreams of the SPA cards and the Cisco uBR-MC3GX60V line card.

For more information about this feature, see the Load Balancing, Dynamic Channel Change, and Dynamic Bonding Change on the Cisco CMTS Routers guide at:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/ubr_load-bal_dcc_support_TSD_Island_of_Content_Chapter.html

Multiple IAPDs in a Single Advertise

To set up multiple, logically-separate networks for a cable modem, multiple Identity Association for Prefix Delegations (IA_PDs) are required. Cisco IOS Release 12.2(33)SCG1 supports assignment of multiple IAPDs to a cable modem subscriber in a single Advertise or Reply message. When a CPE requests Identity Association for Non-temporary Address (IA_NA) or IA_PD, the Cisco Network Registrar determines the number of IA_NAs, IA_PDs, or both IA_NAs and IA_PDs, and sends the addresses in response.

The output of the **show cable modem ipv6** command is changed to support the Multiple IAPDs in a Single Advertise feature.

For more information about the Multiple IAPDs in a Single Advertise feature, see the IPv6 on Cable feature guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/cmts_ipv6_support_TSD_Island_of_Content_Chapter.html

For more information on the command, see *Cisco IOS CMTS Cable Command Reference* at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/command/reference/cbl_16_show_cable_m_to_show_cable_u.html

New Software Features in Cisco IOS Release 12.2(33)SCG

This section describes the new cable software features in Cisco IOS Release 12.2(33)SCG.

Background Synchronization

To improve Simple Network Management Protocol (SNMP) performance, Cisco IOS Release 12.2(33)SCG introduces the Background Synchronization feature that synchronizes the SNMP MIB information between the line card and the route processor (RP). When SNMP queries are sent to the Cisco CMTS routers, the Cisco CMTS router retrieves the data from the route processor. The interprocess communication (IPC) is not used to retrieve the information, thus improving SNMP performance.

The following commands were introduced or modified:

- **cable bgsync**
- **cable bgsync active**
- **clear cable bgsync counters**
- **show cable bgsync**

For more information, see Cisco CMTS Universal Broadband Router Series MIB Specifications Guide 12.2SC:

- http://www.cisco.com/en/US/docs/cable/cmts/mib/12_2sc/reference/guide/ubrmibv5.html

DOCSIS 3.0 DSG MDF Support

The DOCSIS 3.0 DSG Multicast DSID Forwarding (MDF) feature uses DSG DA-to-DSID Association Entry type, length, value (TLV 13) in the MAC domain descriptor (MDD) message to communicate the association between a downstream service identifier (DSID) and a group MAC address used for DSG tunnel traffic. This is automatically supported on the Cisco CMTS router.

You can use the **cable multicast mdf-disable** command with the **dsg** keyword in global configuration mode to disable MDF capability on all DSG embedded cable modems.

For more information about this feature, see the Advanced Mode DOCSIS Set-Top Gateway 1.2 for the Cisco CMTS Routers feature guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/cmts_docsis_gw12.html

Downstream Channel Sharing Across Cisco uBR-MC3GX60V Line Cards and Cisco Wideband SPAs

Starting with Cisco IOS Release 12.2(33)SCG, Cisco uBR-MC3GX60V cable interface line cards and the Cisco Wideband Shared Port Adapter (SPA) can coexist on a single chassis and share downstream channels. MAC domains hosted on the Cisco uBR-MC3GX60V line card can include downstream channels from the Cisco Wideband SPA.

The following commands were introduced or modified:

- **show cable cgd-associations**
- **show cable mac-domain cgd-associations**
- **show cable mac-domain downstream-service-group**
- **show controllers cable**
- **show pxf cpu queue wb-spa**
- **show pxf cpu statistics**

For more information on how to configure the Cisco Wideband SPA with the Cisco uBR-MC3GX60V line card, see Configuring the Cisco uBR-MC3GX60V Cable Interface Line Card at the following URL:

http://www.cisco.com/en/US/docs/interfaces_modules/cable/broadband_processing_engines/ubr_mc3gx60v/configuration/guide/mc3g60_cfg.html

For additional information about this feature, see the Cisco DOCSIS 3.0 Downstream Solution Design and Implementation Guide at the following URL:

http://www.cisco.com/en/US/docs/cable/cmts/wideband/solution/guide/release_2.0/ds_solu.html

Downstream Resiliency Bonding Group

Downstream Resiliency Bonding Group feature allows CMs with multiple impaired RF channels to be allocated to a dynamically-created wideband interface, which ensures that the performance of the wideband CMs is not drastically affected.

For information about this feature, see the Downstream Resiliency Bonding Group at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/ubr_ds_resiliency.html

The following commands were introduced or modified:

- **cable resiliency ds-bonding**
- **cable ds-resiliency**
- **show cable modem resiliency**
- **show cable resiliency**

For further information, see the Cisco IOS CMTS Cable Command Reference Guide at:

http://www.cisco.com/en/US/docs/ios/cable/command/reference/cbl_book.html

FQDN and DSG Name Process

You can specify either a fully-qualified domain name (FQDN) or IP address for Advanced Mode DOCSIS Set-Top Gateway (A-DSG) classifier multicast group and source addresses in Cisco IOS Release 12.2(33)SCG and later. The FQDN functionality uses a hostname in place of the source IP address, and let the DNS server determine which source is sending the multicast traffic.

Every DNS record contains a time to live (TTL) value set by the server administrator, and this may vary from seconds to weeks. The DSG name process supersedes the TTL value criterion to update A-DSG classifiers on the Cisco CMTS router. This process enables the Cisco CMTS router to query the DNS server for faster classifier updates.

The following commands were introduced or modified:

- **cable dsg cfr**
- **cable dsg name-update-interval**
- **cable dsg tg default-priority**
- **cable dsg tg priority**
- **cable downstream dsg disable**
- **cable downstream dsg tg**
- **debug cable dsg**
- **show cable dsg cfr**
- **show cable dsg host**
- **show cable dsg static-group bundle**
- **show interface cable dsg downstream**

For further information, see the feature guide at

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/cmts_docsis_gw12.html

and the Cisco IOS CMTS Cable Command Reference Guide at:

http://www.cisco.com/en/US/docs/ios/cable/command/reference/cbl_book.html

Index and DS Resource Debug Enhancements

In Cisco IOS Release 12.2(33)SCG, some CLIs have been introduced and modified to enable ease of debugging and tracing of index allocations.

The following command was introduced:

cable logging downstream-index

The following commands were modified:

- **clear cable logging**
- **show cable logging**
- **show controllers modular-cable**

For further information, see the Cisco IOS CMTS Cable Command Reference Guide at:

http://www.cisco.com/en/US/docs/ios/cable/command/reference/cbl_book.html

Input MQC Support on the Cable Bundle Interfaces

The Input MQC Support on the Cable Bundle Interfaces feature enables you to differentiate upstream traffic on the cable bundle or sub-bundle interface and set a corresponding "qos-group". This "qos-group" is used at the output WAN interface to classify and set MPLS EXP bits that are different from the ToS and DSCP value of IP packets.

For detailed information about the Input MQC Support on the Cable Bundle Interfaces, see the IOS feature guide: MQC QoS on the Cisco CMTS Routers at the following link:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/ubr_mqc_qos.html

Inter-area MPLS TE Tunnel Support On CMTS

The Inter-area MPLS TE Tunnel Support on the Cisco CMTS feature allows you to establish Multiprotocol Label Switching (MPLS) traffic engineering (TE) tunnels that span multiple Interior Gateway Protocol (IGP) areas and levels. The IGP can be either Intermediate System-to-Intermediate System (IS-IS) or Open Shortest Path First (OSPF).

The Inter-area MPLS TE Tunnel feature is supported on the Cisco CMTS from Cisco IOS Release 12.2(33)SCG onwards with the following restrictions.

- Fast Reroute, Traffic Engineering-DiffServ Aware (DS-TE), Shared Risk Link Groups (SRLG), Auto Tunnel, Auto Mesh, Label-switched Path (LSP) Attributes and Bandwidth Override, Exp-based routing over tunnels, Path-option PROTECT/VERBATIM, TE Fast Tunnel interface down and Auto Bandwidth are not supported on the Cisco CMTS.
- Multicast is not supported on the Cisco CMTS. (Multicast traffic never flows on the label-switched paths (LSPs); it is transferred through native interface. If multicast traffic flows through the network, you can use the 'mpls traffic-eng multicast-intact' command to instruct reverse path forwarding (RPF) check without TE tunnel. However, this method works only with autoroute feature. Since, autoroute is disabled in inter-area, multicast cannot work.)

For detailed information about the Inter-area MPLS TE Tunnel, see the IOS feature guide: MPLS Traffic Engineering: Interarea Tunnels at the following link:

http://www.cisco.com/en/US/docs/ios-xml/ios/mp_te_path_setup/configuration/15-1s/mp-te-interarea-un.html

IOFPGA Firmware Auto Upgrade on Cisco ESR-PRE4 Modules

Starting with Cisco IOS Release 12.2(33)SCG and later releases, the Field-Programmable Gate Array (FPGA) image is automatically upgraded on standby Performance Routing Engine 4 (PRE4) modules. This upgrade occurs when the Cisco uBR10012 router boots up. To disable the automatic upgrade of the FPGA image on the standby PRE4 modules, use the **upgrade fpga auto-upgrade** command.

The following commands were introduced or modified:

- **upgrade fpga auto-upgrade**
- **upgrade fpga auto-upgrade show**

For more information, see the Cisco uBR10012 Universal Broadband Router Performance Routing Engine Module:

http://www.cisco.com/en/US/docs/interfaces_modules/cable/performance_routing_engine/installation/guide/pre5096.html

IPDR Enhancement

Starting with Cisco IOS Release 12.2(33)SCG, the Internet Protocol Detail Record (IPDR) Exporter parameters such as keepalive timer count, maximum number of unacknowledged records, and unacknowledged timeout interval value can be configured using the following commands:

- **ipdr exporter keepalive**—Sets the keepalive timer count value on the IPDR Exporter.
- **ipdr exporter max-unacked**—Sets the maximum number of unacknowledged records on the IPDR Exporter.
- **ipdr exporter ack-timeout**—Sets the time interval for acknowledged records on the IPDR Exporter.

The following commands were introduced or modified:

- **ipdr exporter keepalive**
- **ipdr exporter max-unacked**
- **ipdr exporter ack-timeout**
- **ipdr template**

For more information, see IPDR Streaming Protocol on the Cisco CMTS Routers

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/ipdr_feature_ps2209_TSD_Products_Configuration_Guide_Chapter.html

IPv6 Address Packet Intercept

The IPv6 Address Packet Intercept feature provides lawful intercept of cable modems and CPEs provisioned with IPv6 addresses. This feature taps all the packets received and sent from the system. The intercepted packets are sent to the MD with the content connection identifier (CCCID) specified by the tapping rule.

For detailed information about the IPv6 Address Packet Intercept, see the IOS feature guide: Service Independent Intercept on the Cisco CMTS Routers guide at the following link:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/cmts_siiv2.html

ISSU Enhancement

Starting with Cisco IOS Release 12.2(33)SCG, it is not mandatory to use the **issu linecard process stop** command before using the **issu abortversion** and **issu linecard abortversion** commands.

The **show issu state detail** command was added to the **show tech-support** command on the Cisco uBR10012 router.

The following command was introduced or modified:

- **show tech-support**

For more information, see Cisco IOS In Service Software Upgrade Process at the following URL:
http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/cmts_issu.html

MPLS QoS via TLV for non-L2VPN Service Flow

The MPLS QoS via TLV for non-L2VPN Service Flow feature is a QoS enhancement based on MPLS Traffic Class (TC) bits for MPLS L3VPN. This feature is introduced in Cisco IOS Release 12.2(33)SCG to mark TC bits for MPLS L3VPN imposition packets and classify DS packets based on TC bits of MPLS disposition packets, using vendor-specific TLVs.

For detailed information about the MPLS QoS via TLV for non-L2VPN Service Flow, see the IOS feature guide: Service Flow Mapping to MPLS-VPN on the Cisco CMTS Routers at the following link:
http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/cmts_svcflw_map_vpn.html

Optimized Downstream Queues for High Speed Services

Starting with Cisco IOS Release 12.2(33)SCG, the default queue size for the DOCSIS service flows (with bandwidth greater than 150 Mbps) is increased from 255 to higher values based on the bandwidth on the cable downstream interfaces. Additionally, the queue limit for all service flows can also be adjusted using the cable queue-limit command.

For more information, see the DOCSIS WFQ Scheduler on the Cisco CMTS Routers at:
http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/ubr_docsis_wfq_sch.html
and the Cisco IOS CMTS Cable Command Reference at:
http://www.cisco.com/en/US/docs/ios/cable/command/reference/cbl_book.html

SFP Module Link Status Traps and DEPI Tunnel Control MIB

Starting with Cisco IOS Release 12.2(33)SCG, the Downstream External PHY Interface (DEPI) tunnel in the RF channel can be configured using SNMP on the Cisco uBR10012 router. The ccwbRFChanQamDepiTunnel and ccwbRFChanQamTsid MIB objects are added to the ccwbRFChannelTable of the CISCO-CABLE-WIDEBAND MIB to support this.

Starting with Cisco IOS Release 12.2(33)SCG, two traps are introduced in the CISCO-CABLE-WIDEBAND MIB to monitor the small form-factor pluggable (SFP) link status changes when it is inserted or removed from the shared port adapter (SPA) or cable line cards. The ccwbSFPLinkTrapEnable trap notification is introduced to enable this trap. The ccwbSFPLinkDownNotification and ccwbSFPLinkUpNotification traps are used to monitor the link status changes on the SFP module.

The following commands was introduced or modified:

- **snmp-server enable traps cable**

For more information, see Cisco CMTS Universal Broadband Router Series MIB Specifications Guide 12.2SC:

http://www.cisco.com/en/US/docs/cable/cmts/mib/12_2sc/reference/guide/ubrmibv5.html

Upstream Channel Bonding show CLI Enhancement

In Cisco IOS Release 12.2(33)SCG, some of the upstream channel bonding (USCB) show commands were modified to provide more information.

The following command were modified:

- **description (bonding-group)**
- **show cable modem partial-service**
- **show cable modem tcs summary**
- **show cable modem wideband**
- **show cable modem wideband phy**
- **show cable upstream service-flow summary**
- **show interface cable upstream**

For further information, see the Cisco IOS CMTS Cable Command Reference Guide at:

http://www.cisco.com/en/US/docs/ios/cable/command/reference/cbl_book.html

Upstream Channel Resiliency for RTPS Service Flows

Starting with Cisco IOS Release 12.2(33)SCG, for a Multiple Transmit Channel (MTC) modem, the Real-time Polling Service (RTPS) upstream service flows on an impaired upstream channel is moved to another good upstream channel in the cable modem without resetting the cable modem.

The following command was introduced:

- **cable upstream resiliency sf-move**

For detailed information, see the Upstream Channel Bonding feature guide at:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/ubr_uscb.html

Features Integrated into Cisco IOS Release 12.2(33)SCG6

The following feature introduced in an earlier Cisco IOS Release are now supported in Cisco IOS Release 12.2(33)SCG6:

Disabling Upstream Load Balancing for DOCSIS 3.0 Modems

Effective with Cisco IOS Release 12.2(33) SCH1, load balancing can be activated only on downstream channels. This ensures that upstream load balancing is not activated, allowing a maximum number of channels to be used to bring the upstream bonding cable modems online.

The Disabling Upstream Load Balancing for DOCSIS 3.0 Modems feature can be configured using the **downstream-only** keyword of the **cable load-balance docsis30-enable** command.

The following commands were modified:

- **cable load-balance docsis30-enable**
- **show cable load-balance**

For more details, see the *Load Balancing, Dynamic Channel Change, and Dynamic Bonding Change on the Cisco CMTS Routers* guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/ubr_load-bal_dcc.html

Features Integrated into Cisco IOS Release 12.2(33)SCG5

The following features introduced in an earlier Cisco IOS Release are now supported in Cisco IOS Release 12.2(33)SCG5:

Upstream Channel Descriptor TLV for Ranging Hold-off

The Upstream Channel Descriptor (UCD) Type, Length, Value (TLV) for Ranging Hold-off feature enables the CMTS router to hold off a cable modem from initial ranging based on TLV 18 and 19 specified in the upstream channel descriptor (UCD) messages. The router can hold off a cable modem from initial ranging only for 5 minutes. This feature is supported with DOCSIS 2.0 and later cable modems using upstream logical channels.

The following commands were introduced or modified:

- **cable load-balance exclude**
- **cable upstream chan-class-id**
- **cable upstream rng-holdoff**
- **show cable modem verbose**

For more information about this feature, see the *Cable Modem Steering on the Cisco CMTS Routers* feature guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/ubr_cm_steer.html

Features Integrated into Cisco IOS Release 12.2(33)SCG1

The following features introduced in an earlier Cisco IOS Release are now supported in Cisco IOS Release 12.2(33)SCG1:

DEPI CIN Failover

The **depi cin-failover** command enables CIN failure triggered line card switchover when DEPI control plane is used, and N+1 is configured. When the CPU utilization is high, DEPI CIN failover may get rejected. Starting Cisco IOS Release 12.2(33)SCF4 and later, **cpu-threshold** values can be configured using the **depi cin-failover cpu-threshold** command.

For more information on the command, see *Cisco IOS CMTS Cable Command Reference* at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/command/reference/cbl_book.html

For more information about this feature, see *M-CMTS DEPI Control Plane* feature guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/m-cmts_depi_control_plane_support_TSD_Island_of_Content_Chapter.html

DHCPv6 with Full 6VPE Support

The DHCPv6 with Full 6VPE Support feature introduced in Cisco IOS Release 12.2(33)SCF4 supports the following capabilities for IPv6 on the Cisco CMTS routers:

- Assignment of different prefixes to cable modem (CM) and customer premises equipment (CPE)

- DHCPv6 over Multiprotocol Label System-Virtual Private Network (MPLS-VPN)
- DHCPv6 relay Prefix Delegation (PD) VRF awareness

The following commands were modified:

- **clear ipv6 dhcp relay binding**
- **show ipv6 dhcp relay binding**

For more information about this feature, see the *IPv6 on Cable* feature guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/cmts_ipv6_support_TSD_Island_of_Content_Chapter.html

Features Integrated into Cisco IOS Release 12.2(33)SCG

The following features introduced in an earlier Cisco IOS Release are now supported in Cisco IOS Release 12.2(33)SCG:

Cable Modem Registration Throttling

The Cable Modem Registration Throttling feature improves the cable modem online speed at initial ranging stage by reducing CPU usage.

The following commands were introduced or modified:

- **cable throttle-modem**
- **show cable throttle-modem**

For more information about this feature, see the Cisco IOS CMTS Cable Command Reference guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/command/reference/cbl_book.html

Configurable DHCPv6 Relay Address

Cisco IOS Release 12.2(33)SCE5 introduces the Configurable DHCPv6 Relay Address feature on the Cisco CMTS routers. A DHCPv6 relay agent is used to send relay-forward messages from a source address to all configured relay destinations. The source address is either an IPv6 address provisioned on the network interface or a CMTS WAN IPv6 address. The relay destination can be a unicast address of a server, another relay agent, or a multicast address.

The **ipv6 dhcp relay destination** command was modified to support this feature.

For detailed information about this feature, see the IPv6 on Cable feature guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/cmts_ipv6.html

DOCSIS Extended Transmit Power Feature

The DOCSIS Extended Transmit Power feature, introduced in Cisco IOS Release 12.2(33)SCF2, supports extended upstream transmit power capability as defined in the DOCSIS3.0 Specification. This feature allows the cable modems to transmit at a high extended power level to counter the attenuation in the US channel.

The following commands were introduced or modified:

- **cable upstream ext-power**
- **show cable modem extended-power**

For more information about this feature, see Upstream Channel Bonding feature guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/ubr_uscb.html

DSG Disablement for Hybrid STBs

In Cisco IOS Release 12.2(33)SCF2 and later, the **cable multicast mdf-disable** command with the **wb-incapable-cm** keyword disables multicast DSID forwarding (MDF) capability only on DOCSIS 2.0 hybrid cable modems. To disable MDF capability on all DOCSIS Set-Top Gateway (DSG) embedded cable modems, a new keyword, DSG, was introduced in Cisco IOS Release 12.2(33)SCF2.

For more information about this feature, see the DOCSIS 3.0 Multicast Support on the CMTS Routers feature guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/ubr_d30_mcast_support.html

DSx Support for L2VPN-enabled CMs

The Cisco IOS Release 12.2(33)SCF2 introduces Voice-Call Support on L2VPN CM feature. This feature enables the Cisco CMTS routers to support dynamic service flows on L2VPN-provisioned cable modems to permit voice calls from a non-L2VPN CPE.

To provide voice-call support on a L2VPN CM, you have to configure correct classifiers and create two static service flows (primary and secondary) using the cable modem configuration file.

For more information about this feature, see L2VPN Support over Cable feature guide at:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/cmts_l2vpn.html

MDF1 Support for DOCSIS 2.0 Hybrid Cable Modems

From Cisco IOS Release 12.2(33)SCE4 onwards, the MDF capability is enabled by default on DOCSIS 2.0 hybrid cable modems to allow IPv6 packet forwarding. The **cable multicast mdf-disable** command was modified by adding the keyword **wb-incapable-cm**. This new keyword allows the **cable multicast mdf-disable** command to disable MDF on a wideband incapable cable modem.

For more information about this feature, see the DOCSIS 3.0 Multicast Support on the CMTS Routers feature guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/ubr_d30_mcast_support.html

Move Secondary Service Flows to the Primary Channel Interface

This feature enables the Cisco CMTS router to move all unicast secondary service flows (of a cable modem) to the primary channel interface (modular or cable), when a downstream channel impairment is reported by a cable modem via a CM-STATUS message. Only those unicast secondary service flows, which share the same wideband interface as the primary service flow, are moved to the primary channel interface.

The **cable rf-change-trigger** command was modified to support this feature.

For more information about this feature, see the Wideband Modem Resiliency feature guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/ubr_wm_resiliency.html

Moving CMs Configured with IGMP and RSVP (test cable dcc force Command)

In earlier releases, the test cable dcc command did not support transaction for dynamic channel change (DCC) when the cable modem was configured with IGMP and RSVP. Starting with Cisco IOS Release 12.2(33)SCE6, the force keyword allows users to manually move cable modems configured with IGMP and RSVP, when the DCC init-tech is set to 0.

For more information about this command, see the Cisco IOS CMTS Cable Command Reference guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/command/reference/cbl_book.html

PRE High Availability Enhancement

In Cisco IOS Release 12.2(33)SCE5, the PRE high availability is enhanced to address the PRE switchover issue in which both the PRE modules behave as the primary PRE modules. The line card uses a link loop mechanism when both the PRE modules behave as primary PRE modules. In this mechanism, the line card checks the packet sent from the active PRE module, and automatically does a switchover to the real active PRE. The link loop mechanism automatically connects to the new PRE module based on the MAC address, thus increasing robustness. This mechanism occurs before the IPC keepalive timeout mechanism occurs between the route processor and the line card.

The PRE high availability enhancement applies to both Stateful Switchover (SSO) and Route Processor Redundancy (RPR) modes on the Cisco uBR10012 router.

For detailed information on configuring Route Processor Redundancy, see Route Processor Redundancy for the Cisco uBR10012 Universal Broadband Router document at:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/ubr10012_rtpro_red.html

For detailed information on configuring Stateful Switchover (SSO), see Stateful Switchover document at:

http://www.cisco.com/en/US/docs/ios/12_2s/feature/guide/fssso20s.html

Service Class Relay Agent Option

The Cisco IOS Release 12.2(33)SCF2 introduces support for the DHCP Relay Agent Information sub-option (DHCP Option 82, Suboption 9) enhancement to simplify provisioning of the CPE devices. Using this sub-option, the cable operators can relay the service class or QoS information of the CPE to the DHCP server to get an appropriate IP address.

The **cable dhcp-insert service-class** command was modified to support this feature.

For more information about this feature, see DHCP, ToD, and TFTP Services for the CMTS Routers feature guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/cmts_services.html

Support for 256 Legacy LBGs

To support effective configuration of legacy load balance groups (LBGs) on the Cisco uBR-MC3GX60V line card, the valid range for the legacy load balance group is changed in Cisco IOS Release 12.2(33)SCE4. In Cisco IOS Release 12.2(33)SCE3 and earlier, the valid range is from 1 to 80. In Cisco IOS Release 12.2(33)SCE4 and later, the valid range is from 1 to 256.

The following commands are new or modified:

- **cable load-balance group**
- **cable load-balance group (interface)**
- **cable load-balance group interval**
- **cable load-balance group policy ugs**
- **cable load-balance group threshold**
- **cable upstream load-balance group**
- **show cable load-balance**

For more information about this feature, see the Load Balancing and Dynamic Channel Change on the Cisco CMTS Routers feature guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/ubr_load-bal_dcc.html

Support for IPv6 Prefix Stability on the CMTS

Cisco IOS Release 12.2(33)SCF1 supports IPv6 prefix stability on the Cisco CMTS as specified in DOCSIS 3.0 MULPI CM-SP-MULPIv3.0-I15-110210 standard. The IPv6 prefix stability allows an IPv6 home router to move from one Cisco CMTS to another while retaining the same prefix.

The multiple service operators (MSOs) can use this feature to allow their business customers (with IPv6 routers) to retain the same IPv6 prefix during a node split.

For more information about this feature, see IPv6 on Cable feature guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/cmts_ipv6.html

Unitary DHCPv6 Leasequery

The Cisco IOS Release 12.2(33)SCF1 introduces support for Unitary DHCPv6 Leasequery protocol (RFC 5007) on the Cisco CMTS routers for upstream IPv6 source verification. This protocol verifies the authenticity of the IPv6 CPE behind a home or small office cable deployment.

The following commands are new or modified for Unitary DHCPv6 Leasequery feature:

- **cable ipv6 source-verify**
- **cable ipv6 source-verify leasequery-filter downstream**
- **debug cable ipv6 lq**
- **show cable leasequery-filter**

For more information, see Cable DHCP Leasequery feature guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/cmtsflt_dhcp_lsqr.html

Upstream Buffer Control for Maximum Queue Depth

Upstream traffic shaping uses queues to control the upstream data flow. The data packets are buffered in a queue on the CM to regulate traffic and avoid network congestion. Starting with Cisco IOS Release 12.2(33)SCF2, the Upstream Buffer Control for Maximum Queue Depth feature enables the Cisco CMTS to control the size of this queue (or buffer) by controlling the amount of data that can be enqueued for transmission at any point of time.

The following commands were added or modified:

- **cable service class**
- **show cable modem service-flow**
- **show cable service-class**

For more information about this feature, see Configuring Upstream Cable Interface Features on the Cisco CMTS Routers feature guide at the following URL:

http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/cmts_upstrm_if.html

Modified Software Features in Cisco IOS Release 12.2(33)SCG1

There are no modified software features in Cisco IOS Release 12.2(33)SCG1.

Modified Software Features in Cisco IOS Release 12.2(33)SCG

There are no modified software features in Cisco IOS Release 12.2(33)SCG.

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>

If Cisco MIB Locator does not support the MIB information that you need, you can also obtain a list of supported MIBs and download MIBs from the Cisco MIBs page at the following URL:

<http://www.cisco.com/public/sw-center/netmgmt/cmtk/mibs.shtml>

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. 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 universal broadband routers, see the *Cisco CMTS Universal Broadband Series Router MIB Specifications Guide*.

New and Changed MIB Information in Cisco IOS Release 12.2(33)SCG

The following MIB changed in Cisco IOS Release 12.2(33)SCG:

- CISCO-CABLE-WIDEBAND-MIB

Limitations and Restrictions

This section describes restrictions for the Cisco universal broadband routers in Cisco IOS Release 12.2(33)SC.

Unsupported Hardware

For a list of unsupported hardware, see the End-of-Life and End-of-Sale Notices at:

http://www.cisco.com/en/US/products/hw/cable/ps2209/prod_eol_notices_list.html

Software Feature Restrictions

This section describes other important guidelines or restrictions to consider when running Cisco IOS Release 12.2SC that might not yet be documented in the supporting customer documentation.

DOCSIS 3.0 Load Balancing

In Cisco IOS Release 12.2(33)SCG, DOCSIS 3.0 load balancing is not supported on the Cisco Wideband SPA when the SPA co-exists with a Cisco uBR-MC3GX60V line card on the Cisco CMTS router.



Note

Effective with Cisco IOS Release 12.2(33)SCG1, the Cisco uBR-MC3GX60V line card and up to five Cisco Wideband SPAs can be configured to the same LBG.

DOCSIS

- You cannot configure a US connector to more than one fiber node.
- Multicast over DOCSIS L2VPN does not work for a DOCSIS 3.0-bonded cable modem (CM) when DOCSIS L2VPN is provisioned on a DOCSIS 3.0-bonded CM and downstream multicast traffic is sent over L2VPN. You can use a DOCSIS L2VPN classifier to classify multicast traffic on a secondary DS service flow with SF attributes (TLV 25.31/32) specifying primary DS for the CM. As a result, L2VPN multicast traffic uses the primary DS and L2VPN unicast traffic is forwarded over the primary bonding group. The service flow attribute feature is available in Cisco IOS Release 12.2SCB.

DTI Card Configuration

The Cisco uBR10012 universal broadband router TCC card does not work as expected when the startup configuration contains the configuration for a Cisco uBR10012 universal broadband router TCC+ card. To fix this issue, use the **no card slot/subslot 2cable-tccplus** command and then configure the DTI card.

MIBs Restrictions

- IP-MIB is implemented as read-only. Writing is not supported for ipv6IPForwarding or ipv6IpDefaultHopLimit.
- docsIf3MdCfgMcastDsidFwdEnabled object is implemented as read-only.
- cdxBWQueueMaxDepth object sometimes reports a value out of range. The supported range is from 0 to 64, but the object sometimes returns a value of 128 when queried.

PacketCable

Payload Header Suppression (PHS) is not supported on wideband Embedded Media Terminal Adapters (eMTAs) for dynamic downstream service flows.

PXF

Statistics for two different divert-rate limit (DRL) WAN-IP streams can momentarily overlap or collide and produce statistics that are lower than expected.

Redundancy

- Longer dropout times (about 6 seconds) can occur when you use the OIR method to trigger a cable line card switchover on the Cisco uBR10012 router. To repair or maintain a cable line card and get better switchover performance, use the **redundancy linecard-group switchover** command to trigger the line card switchover instead.
- Although the software does not prevent it, preconfiguring commands on a protect line card is not supported.
- A dynamic service-flow for a PacketCable call is not deleted during a line card switchover.
- Although the Cisco CMTS router is initially configured only for global N+1 redundancy, the **show running-configuration** command displays both global and legacy interface-level Hot-Standby Connection-to-Connection Protocol (HCCP) configuration when you change the redundancy mode configuration from SSO to RPR mode. If you switch back to SSO mode, both redundancy configurations are still shown.
- In very rare circumstances, after an N+1 switchover, upstream traffic that is using Baseline Privacy Interface (BPI) encryption is not received properly by the CMTS router. Input errors are logged on the interface and the **debug cable error** command shows error messages similar to the following:

```
Cable5/1/4: Bad rx packet. JIB status code 0xA
```

The issue occurs on upstream channels that use a shared connector, where the other upstream channel using the same shared connector is on another downstream and is shutdown. To workaround this issue, you can activate the downstream and other upstream channel using the same shared connector or temporarily unshare the upstream connector.

Wideband

If you configure a wideband interface with more than one MAC domain host sharing the committed information rate (CIR) bandwidth, then the total wideband interface CIR bandwidth gets fragmented among the MAC domain (MD) hosts sharing the wideband interface CIR bandwidth.

The WB interface CIR bandwidth can be shared by multiple MAC domain hosts, and these MAC domain hosts could potentially be on the same or different cable line cards. As admission control for WB interfaces occurs on cable line cards, the available CIR bandwidth gets partitioned and is given to the MD hosts causing the bandwidth fragmentation. However if a typical service flow CIR is very small compared to the total CIR of the wideband interface, then this fragmentation is not visible until the CIR usage reaches very high levels close to the total interface bandwidth.

With certain bandwidth percentage configuration and traffic distribution, the overall link utilization of dynamic bandwidth sharing (DBS) can be as low as 85 percent. For example, this can occur if the traffic rate on a wideband interface is smaller than its configured bandwidth percentage, but the traffic rate on a modular-cable interface is much larger than its bandwidth percentage. The packet drops occur only on

the modular-cable interface which has a larger amount of traffic than its bandwidth-percentage. To workaroud this scenario, configure a higher bandwidth percentage to the modular-cable interface, which is larger than or equal to its expected or average traffic rate.

Important Notes

Documentation Updates in Cisco IOS Release 12.2(33)SCG4

Effective with Cisco IOS Release 12.2(33)SCG4, the field Active Remote DS has been modified to Active DS in the output of **show cable cgd-associations** command.

Documentation Updates in Cisco IOS Release 12.2(33)SCG

Based on user feedback for ease of navigation, the *Cisco IOS CMTS Cable Software Configuration Guide, Release 12.2SC* is now split into eight different guides.

Each Software Configuration Guide comprises feature guides that belong to a specific technology area.

Cable Upstream DOCSIS Mode

Starting with Cisco IOS Release 12.2(33)SCG, the default upstream DOCSIS mode is ATDMA only.

For more information, see DOCSIS 2.0 A-TDMA Modulation Profiles for the Cisco CMTS Routers at: http://www.cisco.com/en/US/docs/ios/cable/configuration/guide/cmts_ds20_atdma_pf.html

and Cisco IOS CMTS Cable Command Reference at:

http://www.cisco.com/en/US/docs/ios/cable/command/reference/cbl_book.html

show interface gigabitethernet Command

The output of the **show interface gigabitethernet** command now displays the correct values for the *output flow-control status* and *input flow-control status*.

In previous Cisco IOS releases, the output of the **show interface gigabitethernet** command always displayed the value for *output flow-control status* as "unsupported", and value for *input flow-control status* as "XOFF" (when SPA handled received-pause-frames) or "XON" (when SPA did not handle received-pause-frames).

For more information, see the **show interface gigabitethernet** command at:

http://www.cisco.com/en/US/partner/docs/ios/cable/command/reference/cbl_18_show_d_to_show_i.html#wp1344403

IP Packets and Cisco CMTS Buffer Size

If the Cisco CMTS receives IP packets larger than its default buffer size (8192), the CMTS cannot process these packets. This causes IP fragment issues on the Cisco CMTS.

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* at: <http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>.

Subscribe to *What's New in Cisco Product Documentation*, which lists all new and revised Cisco technical documentation, as an RSS feed and deliver content directly to your desktop using a reader application. The RSS feeds are a free service.



Caveat List for Cisco IOS Release 12.2(33)SCG

This chapter 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.

The bug IDs are sorted alphanumerically.



Note

The Caveats section includes the bug ID and a short description of the bug. For details on the symptoms, conditions, and workaround for a specific caveat you must use the Bug Search Tool.

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—Cisco IOS Release 12.2(33)SCG7

Bug ID	Description
CSCud54792	When a number of resiliency events occur, the following error occurs: <pre>send_crane_stats_mod_sf_deletion_info(): Unable to add SF creation info Jib3-DS: jib3ds_clear_dsid_entry DSID table index INVALID: 0</pre>
CSCud75287	Unused QoS profiles cannot be removed.
CSCuc10438	Upstream Bonding Group with ID greater than 65535 do not have any upstream channel members.

Bug ID	Description
CSCug84692	When cmts_int_walk_cm_list tries to delete cable modems, the PRE crashes.
CSCtz29975	In a large scale performance environment, such as eight Cisco uBR-MC3GX60V line cards in (7 + 1) redundancy mode, 120 MAC Domains, and 1000 cable modems, the standby PRE crashes on PRE switchover.
CSCuh36861	When the upstream bonding is tuned on the interface, the service slow grants are displayed incorrectly.
CSCui52273	CPUHOG causes the Cisco uBR-MC3GX60 line card failure.
CSCud22985	When you use the no snmp-server enable traps docsis-cmts on a Cisco CMTS running the Cisco IOS Release 12.2(33)SCF3 and the modems switch channels, it continues to send DOCSIS Dynamic Channel Change (DCC) traps.
CSCtl16221	When the show licenses command is used, it displays incorrect count of licenses.
CSCtf14838	When an unconfigured wideband bonding group is re-configured with different RF channel bonding and change attribute mask configuration, error messages are displayed.
CSCuf51415	DOCSIS 2.0 modems go offline. "SINGLE_BIT_SEU_INT" error is seen before the modems go offline.
CSCue10014	An Upstream Channel Descriptor (UCD) timeout occurs when the RF channels are configured with more than three Wideband SPA controllers of the Cisco MAC domain and as they may not have the UCD information.
CSCua12456	The values for ccwbrfChannelUtilization and docsisCmtsChannelUtUtilization are calculated incorrectly.
CSCua74782	Line card crashes due to FAUNA fatal error. However, the bits of "FAUNA_GBL_FATAL_INT" register are not set in the crashinfo file.
CSCuh44612	A Cisco uBR-MC3GX60V line card crashes on a Cisco uBR10012 router running Cisco IOS Release 12.2(33)SCE.
CSCug18771	On Cisco 10012 router with Cisco uBR-MC3G60V line card using BRCM3142 chip, the upstream modulation error ratio (MER) is limited to 36.12 dB is observed.

Bug ID	Description
CSCuj11734	<p>Error message and traceback observed in logs:</p> <pre>SLOT 6/0: Aug 23 05:36:30.653 CEST: SCHED-3-STUCKMTMR Sleep with expired managed timer AB4E638, time 0x4A8E4404 (14:51:30 ago). -Process= "j3us_partial_reset_process", ipl= 4, pid= 65 -Traceback= 21271F8 2127A18 227F414 227F8C8 28CEF54 22A091C</pre>
CSCud16147	<p>When DTI status error (bug CSCud44570) occurs during Route Processor Redundancy mode switchover, and the jacket card is removed incorrectly, errors and tracebacks occur.</p>
CSCue29512	<p>L3 PING loss is seen in wideband channel modems, after replacing the HCCP working linecard with the protect card.</p>
CSCue01965	<p>The active or standby PRE crashes. This occurs on a CMTS that has The Cisco 3 Gbps Wideband Shared Port Adapter (SPA) or Cisco 24 Port Modena SPA is installed on the CMTS.</p>
CSCui53225	<p>During a line card switch over and revert back, the line card high availability feature remains operational and the modems stayed online. However, the following error occurs:</p> <pre>SLOT 5/1: Aug 6 17:08:52.523: %SCHED-2-EDISMSCRIT: Critical/high priority process HCCP_LC_DATA may not dismiss. -Process= "HCCP_LC_DATA", ipl= 0, pid= 125</pre>
CSCuc75589	<p>When the command line interface is used to access a mapped upstream interface, the command line interface stops responding. Shut down the mapped upstream interface or reset the line card, to recover from this issue.</p>
CSCub66838	<p>When the Active PRE crashed and triggers a PRE switchover., the following error is displayed:</p> <pre>%UBR10KTCC-3-BLKCMD: Schooner System IPC failure for TCC cardUC Command 414 failure ../src-4k-cr10k-rp/sch_uc_cmd_event.c (641)</pre>
CSCud59107	<p>On Cisco MC3GX60V line card, when fiber cable and Small Form-Factor Pluggable (SFP) (into active port) are plugged in at the same time, Traffic does not revert back to the active port.</p>
CSCud44570	<p>In Route Processor Redundancy mode, during PRE switch over, DTCC is not detected and DOCSIS Timing Interface (DTI) displays wrong status.</p>

Bug ID	Description
CSCue89917	The issu linecard changeversion all command fails to upgrade the protect linecard and is terminated due to a fully loaded chassis (more than 6 line cards) and heavy CPU load (more than 80%).
CSCtx75457	When an upgrade is performed to SCE or SCF release, error messages are reported when the Cisco CMTS is booting up from a reload. These messages also appear when CMTS, with SCE or later code, reloads.
CSCub69493	When unsupported line cards are installed on the chassis, the issu abortversion command fails. Remove all unsupported line cards before performing ISSU operations.
CSCug35784	In DOCSIS 3.0 load balancing, the wideband cable modem fails to move after registration in VDOC deployment.
CSCud85776	When there are several DOCSIS Set-top gateway (DSG) classifiers and channel grouping domains (CGDs) in one mac-domain, then adding more CGDs to the mac-domain leads to CPU Hog and traceback messages.
CSCua90867	When the no downstream modular-cable rf-channel command is executed, the system crashes.
CSCue89346	When you apply a service class to the RSVP and then remove it, the standby route processor is reset due to following failure: cable rsvp default-scen xxx Config Sync: Bulk-sync
CSCuh82586	When the Cisco uBR-MC3GX60 license MoP is run and the licenses are transferred to a dummy device, the license count is displayed incorrectly, when the show cable license all command is used.
CSCud53156	PRE crashes with the following error and traceback: TCP-2-INVALIDTCB Invalid TCB pointer: 0x14A20804 -Process="IPDR_EXP_PROC", ipl= 0, pid= 89
CSCud67629	When you use the show packetcable cms verbose command, the gate del and gate del ack counters overflow, if the counter value is more than 65535.
CSCud92352	When hostname styled DSG classifiers were configured successfully and there are many channels configured in DSG tunnel group, CPU Hog message on DSG process is displayed.

Bug ID	Description
CSCty18719	While configuring ACLs from multiple CLI terminals at the same time, the CPU utilization is high and Cisco IOS crashes.
CSCue65274	When a route-map is configured using index 0 and then removed, it causes the route processor to crash in a non released image.
CSCui32318	PRE5 management GE is configured with 100 Mbps capacity, full duplex and no auto-negotiation features. Full duplex setting on the management GE interfaces fails.
CSCug61719	When an IP QoS policy is defined in an MPLS based BSoD implementation, the source and destination MAC addresses of the L2VPN frame are corrupted.
CSCue75274	IPC problem occurs after PXF crash which triggers the route processor to crash, due to faulty management procedure.
CSCui73745	After a working line card lockout, and protect card is reconfigured, the working card fails over when the lockout card is enabled, but revert back fails due to the lockout status.
CSCuf58088	On the TenGigabitEthernet interfaces of the Cisco uBR10012 router configured with WAN load-balancing feature, the IPv6 traffic is dropped for the failed IPv6 RPFs. The IPv6 RPFs fail after switchover to the redundancy load-balancing interfaces.

Resolved Caveats—Cisco IOS Release 12.2(33)SCG7

Bug ID	Description
CSCua12699	The Cisco uBR-MC3GX60V line card crashes after the DOCSIS load balancing is reconfigured.
CSCuc60592	The Cisco uBR-MC3GX60V line card crashes and traceback is observed when the service flow is deleted.
CSCul25094	The Cisco CMTS resets when polling docsIf3CmtsCmUsStatusEntry via SNMP.

Bug ID	Description
CSCud34018	The Cisco uBR-MC3GX60V line card crashes due to the CPUHOG when the docsIfCmtsServiceEntry SNMP query is performed.
CSCum00465	High CPU usage on the Cisco uBR-MC3GX60V line card from the background synchronization process causes low throughput on Unsolicited Grant Service (UGS) flows, and choppy voice.
CSCu158523	The upstream channel remains in the Disaster Recovery (DR) status even after recovering from the RF impairment on the Cisco CMTS using the Cisco uBR-MC3GX60V line card.
CSCuj24198	The line card crashes after its memory is exhausted and the following error message is observed: SLOT 8/1: Sep 15 09:16:12.053 CST: %SYS-2-MALLOCFAIL: Memory allocation of 1708 bytes failed from 0x26C94A4, alignment 32 Pool: I/O Free: 6683440 Cause: Memory fragmentation
CSCu117104	Line card crashes due to large scale configurations such as CMTS multicast QoS, which occupy most of the CPU.
CSCu140869	Malformed L2TP packets are found after PRE switchover.
CSCu193006	Common Open Policy Service (COPS) CPU is in "high" state even though most connections are in closed state.
CSCum11408	The standby Route Processor (RP) crashes when Virtual Routing and Forwarding (VRF) is configured for the multicast QoS (MQoS) group.
CSCum37153	The Route Processor crashes. However, it recovers automatically.
CSCuj38584	When PCMM and packetcable configurations are enabled, the PRE5 crashes in testing environment
CSCuj58597	When multicast service flow QIDs are set to "0", the DOCSIS Set-Top Gateway (DSG) traffic is impacted on the Cisco CMTS.
CSCuj80773	The standby Route Processor (RP) cannot boot due to bulk-sync failure when DOCSIS Set-top Gateway (DSG) is configured on the sub-bundle interface, and the DSG tunnel group (TG) is disabled globally.

Bug ID	Description
CSCud04324	On Cisco uBR10012 router running Cisco IOS Version 12.2(33)SCF2, UBR10KG4CLC-LCK8-M, the Cisco uBR-MC3GX60V line card crashes after the following error is displayed for a few hours: %SYS-2-MALLOCFAIL
CSCuj25262	L3 connectivity is lost on a modem with Dynamic Quality of Service (DQoS) configurations. However, the DOCSIS ping succeeds.
CSCun50292	The UPX firmware upgrade fails because the newly defined part number is changed from 07-1100-xx to 800-4028564-xx. When used with "UPX SW Version = 0x101", The HCCP switch over fails with errors. The test cable ds_phy upx image all_upgrade command may be used to upgrade/downgrade UPX Firmware manually.
CSCuj96514	Line card crashes after CPU hog after deleting the cable monitor CAM entry of the MAC domain.
CSCui68273	The "Send the CLEAR ARP message" is continuously printed when debug cable is enabled and the Address Resolution Protocol (ARP) requests are removed from the Customer Premise Equipment (CPE).
CSCuj89646	The Border Gateway Protocol (BGP) IPv6 unicast flaps randomly on the Cisco CMTS when several packets punt to the Route Processor (RP) default queue.
CSCuj88513	IPv6 traffic drops sporadically when the IPv6 traffic load is shared across multiple WAN uplinks when Intermediate System-to-Intermediate System (IS-IS) is configured for IPv6 traffic.
CSCug73538	The Layer 2 VPN (L2VPN) traffic stops when DOT1Q L2VPN is configured on the Cisco 1-Port 10-Gigabit Ethernet SPA and the shut and no shut commands are used.
CSCui98650	Memory leak is observed when discriminator logging is configured.
CSCul93773	DTI card fails to come back online after its slot is changed from 2/1 to 1/1.
CSCui53679	Cisco uBR-MC3GX60 line card restarts and recovers without manual intervention because of a watchdog timeout event related to the IPC, during normal operations.

Bug ID	Description
CSCuh47188	The 10 gigabit Ethernet link carrier flaps when you use a combination of Cisco uBR10012 router SPAs and XFPs with the following serial numbers: XFP-10GLR-OC192SR SN# begins with AGASPA-1X10GE-L-V2 SN# begins with SAL
CSCum17344	LCDOS version string includes the following message when the version string is longer than 256 characters: set_chunk_alignment: arg %d not a power of two!
CSCuj76237	The Address Resolution Protocol (ARP) entry behind the Cisco uBR-MC3GX60V interface is considered as the entry for cable interface after Route Processor (RP) switchover until it is recovered by ARP adjacency. During this period, the corresponding peer is unreachable.
CSCuh13771	Route Processor (RP) crashes due to power entry module (PEM) issues and the following error message is observed: %SYS-6-STACKLOW: Stack for process Environment Monitor running low, 0/3000And current low stack process is: "Environment Monitor"

Open Caveats—Cisco IOS Release 12.2(33)SCG6

Bug ID	Description
CSCtf14838	When an unconfigured wideband bonding group is re-configured with different RF channel bonding and change attribute mask configuration, error messages are displayed.
CSCtl16221	When the show licenses command is used, it displays incorrect count of licenses.
CSCtx75457	When an upgrade is performed to SCE or SCF release, error messages are reported when the Cisco CMTS is booting up from a reload. These messages also appear when CMTS, with SCE or later code, reloads.
CSCty18719	While configuring ACLs from multiple CLI terminals at the same time, the CPU utilization is high and Cisco IOS crashes.

Bug ID	Description
CSCty91751	When time sync occurs after power cycling of eight Cisco uBR-MC3GX60V line cards on the chassis, time sync failed on one line card.
CSCtz29975	In a large scale performance environment, such as eight Cisco uBR-MC3GX60V line cards in (7 + 1) redundancy mode, 120 MAC Domains, and 1000 cable modems, the standby PRE crashes on PRE switchover.
CSCua12456	The values for ccwbrFChannelUtilization and docsIfCmtsChannelUtUtilization are calculated incorrectly.
CSCua74782	Line card crashes due to FAUNA fatal error. However, the bits of "FAUNA_GBL_FATAL_INT" register are not set in the crashinfo file.
CSCua90867	When the no downstream modular-cable rf-channel command is executed, the system crashes.
CSCub66838	When the Active PRE crashed and triggers a PRE switchover., the following error is displayed: "%UBR10KTCC-3-BLKCMD: Schooner System IPC failure for TCC cardUC Command 414 failure .. /src-4k-cr10k-rp/sch_uc_cmd_event.c (641) "
CSCub69493	When unsupported line cards are installed on the chassis, the ISSU abortversion fails. Remove all unsupported line cards before performing ISSU operations.
CSCuc10438	Upstream Bonding Group with ID greater than 65535 do not have any upstream channel members.
CSCuc75589	When the command line interface is used to access a mapped upstream interface, the command line interface stops responding. Shut down the mapped upstream interface or reset the line card, to recover from this issue.
CSCud16147	When DTI status error (bug CSCud44570) occurs during Route Processor Redundancy mode switchover, and the jacket card is removed incorrectly, errors and tracebacks occur.
CSCud22985	When you use the no snmp-server enable traps docsis-cmts on a Cisco CMTS running the Cisco IOS Release 12.2(33)SCF3 and the modems switch channels, it continues to send DOCSIS Dynamic Channel Change (DCC) traps.

Bug ID	Description
CSCud53156	PRE crashes with the "TCP-2-INVALIDTCB Invalid TCB pointer: 0x14A20804 -Process="IPDR_EXP_PROC", ipl= 0, pid= 89" error message and a traceback.
CSCud54792	When a number of resiliency events occur, the following error occurs: send_crane_stats_mod_sf_deletion_info(): Unable to add SF creation info Jib3-DS: jib3ds_clear_dsid_entry DSID table index INVALID: 0
CSCud59107	When SFP is plugged into active port, at the same time as fiber cable plugin, the traffic does not revert back to active port on the Cisco MC3G60V card.
CSCud67629	When you use the show packetcable cms verbose command, the gate del and gate del ack counters overflow, if the counter value is more than 65535.
CSCud75287	Unused QoS profiles cannot be removed.
CSCud85776	When there are several DOCSIS Set-top gateway (DSG) classifiers and channel grouping domains (CGDs) in one mac-domain, then adding more CGDs to the mac-domain leads to CPU Hog and traceback messages.
CSCud92352	When hostname styled DSG classifiers were configured successfully and there are many channels configured in DSG tunnel group, CPU Hog message on DSG process is displayed.
CSCue01965	The active or standby PRE crashes. This occurs on a CMTS that has The Cisco 3 Gbps Wideband Shared Port Adapter (SPA) or Cisco 24 Port Modena SPA is installed on the CMTS.
CSCue10014	A Upstream Channel Descriptor (UCD) timeout occurs when the RF channels are configured with more than three Wideband SPA controllers of the Cisco MAC domain and as they may not have the UCD information.
CSCue29512	L3 PING loss is seen in wideband channel modems, after replacing the HCCP working linecard with the protect card.
CSCue65274	When a route-map is configured using index 0 and then removed, it causes the route processor to crash in a non released image.
CSCue75274	IPC problem occurs after PXF crash which triggers the route processor to crash, due to faulty management procedure.

Bug ID	Description
CSCue89346	When you apply a service class to the RSVP and then remove it, the standby route processor is reset due to "cable rsvp default-scen xxx Config Sync: Bulk-sync" failure.
CSCue89917	The issu linecard changeversion all command fails to upgrade the protect linecard and is terminated due to a fully loaded chassis (more than 6 line cards) and heavy CPU load (more than 80%).
CSCuf51415	DOCSIS 2.0 modems go offline. "SINGLE_BIT_SEU_INT" error is seen before the modems go offline.
CSCuf58088	On the TenGigabitEthernet interfaces of the Cisco uBR10012 router configured with WAN load-balancing feature, the IPv6 traffic is dropped for the failed IPv6 RPFs. The IPv6 RPFs fail after switchover to the redundancy load-balancing interfaces.
CSCug18771	On Cisco 10012 router with Cisco uBR-MC3G60V line card using BRCM3142 chip, the upstream modulation error ratio (MER) is limited to 36.12 dB is observed.
CSCug35784	In DOCSIS 3.0 load balancing, the wideband cable modem fails to move after registration in VDOC deployment.
CSCug61719	When an IP QoS policy is defined in an MPLS based BSoD implementation, the source and destination MAC addresses of the L2VPN frame are corrupted.
CSCug84692	When cmts_int_walk_cm_list tries to delete cable modems, the PRE crashes.
CSCuh36861	When the upstream bonding is tuned on the interface, the service slow grants are displayed incorrectly.
CSCuh44612	A Cisco uBR-MC3GX60V line card crashes on a Cisco uBR10012 router running Cisco IOS Release 12.2(33)SCE.
CSCuh47188	The 10 gigabit Ethernet link carrier flaps when you use a combination of Cisco uBr10012 router SPAs and XFPs with the following serial numbers: ,ÄçXFP-10GLR-OC192SR SN# begins with AGA ,ÄçSPA-1X10GE-L-V2 SN# begins with SAL

Bug ID	Description
CSCuh82586	When the Cisco uBR-MC3GX60 license MoP is run and the licenses are transferred to a dummy device, the license count is displayed incorrectly, when the “show cable license all” command is used.
CSCui32318	PRE5 management GE is configured with 100 Mbps capacity, full duplex and no auto-negotiation features. Full duplex setting on the management GE interfaces fails.
CSCui52273	CPU hog causes the Cisco uBR-MC3GX60 line card failure.
CSCui53225	<p>During a line card switch over and revert back, the line card high availability feature remains operational and the modems stayed online. However, the following error occurs:</p> <pre>SLOT 5/1: Aug 6 17:08:52.523: %SCHD-2-EDISMSCRIT: Critical/high priority process HCCP_LC_DATA may not dismiss. -Process= "HCCP_LC_DATA", ipl= 0, pid= 125</pre>
CSCui53679	Cisco uBR-MC3GX60 line card restarts and recovers without manual intervention because of a watchdog timeout event related to the IPC, during normal operations.
CSCui73745	After a working line card lockout, and protect card is reconfigured, the working card fails over when the lockout card is enabled, but revert back fails due to the lockout status.
CSCuj11734	<p>Error message and traceback observed in logs:</p> <pre>SLOT 6/0: Aug 23 05:36:30.653 CEST: SCHD-3-STUCKMTMR Sleep with expired managed timer AB4E638, time 0x4A8E4404 (14:51:30 ago). -Process= "j3us_partial_reset_process", ipl= 4, pid= 65 -Traceback= 21271F8 2127A18 227F414 227F8C8 28CEF54 22A091C</pre>
CSCuj39760	<p>When the Cisco IOS 12.2(33)SCG4 image is run with Cisco uBR-MC20X20V line card in slot 5/0, the line card fails repeatedly. Tracebacks and the following error message occur in the log:</p> <pre>SLOT 5/0: Sep 8 02:09:16.172: UBR10000-3-LB_MODEM_FAILED Failed to move modem 0023.746c.9e02 from In5/0/4:3 to In5/0/4:1 (549 MHz)</pre>
CSCuj58597	When multicast service flow QIDs are set to “0”, the DOCSIS Set-Top Gateway (DSG) traffic is impacted on the Cisco CMTS.

Resolved Caveats—Cisco IOS Release 12.2(33)SCG6

Bug ID	Description
CSCty91751	When time sync occurs after power cycling of eight Cisco uBR-MC3GX60V linecards on the chassis, time sync failed on one line card.
CSCub44580	Cable modem gets stuck at INIT (RC) and fails to come online.
CSCub69658	The Cisco uBR10012 router creates a MAC address-based filter if TLV35 is configured in modem.config file. If some CPEs have multiple IPv4 addresses, the number of CPEs behind the modem could exceed limit set by TLV35. This violates DOCSIS 3.0 specification.
CSCuc42208	The Cisco CMTS router drops call flow when the specified cable service flow activity timeout value is reached.
CSCud47331	When a logical upstream DOCSIS mode is configured as TDMA or TDMA/A-TDMA mixed mode and channel width is configured as 200000 Hz, Cisco uBR-MC20X20V line card crashes.
CSCud67930	When an IPv6 modem come online from a different bundle sub interface other than the initial bundle sub interface, duplicate IPv6 cable-modem ND cache with Link Local Addresses (LLA) address is observed.
CSCud68948	When using the three step dynamic modulation profile, the upstream channels do not move to the most robust modulation profile.
CSCud85145	After a route processor switchover, no port is opened on the new active CMTS and the IPC message "CMTS IPC: inband" is displayed.
CSCud85809	When a SNMP polling script is used to poll SNMP objects with a large number of online cable modems, CPU Hog occurs with DTCC card and line card crash.
CSCud85818	The standby PRE crashes because of a mismatch between the configurations of standby and active PREs.
CSCud91942	When an invalid RF channel number is configured on a wideband SPA and Cisco uBR-MC3GX60V line card, the PRE crashes.
CSCue27602	When there are several static groups, use aggregate flows ,and admission control fails, cmts_mqos_delete_msession crashes.

Bug ID	Description
CSCue30172	When you use the show cable modem ipv6 cpe command, the route processor crashes due to alignment or spurious memory access error.
CSCue33690	When Cisco CMTS software upgrade is performed from SCE3 to SCG1, log messages are displayed.
CSCue41062	When the server sends a DHCPNak message, the Cisco CMTS, running the Cisco IOS Release 12.2(33)SCG1, does not forward it to the end user devices.
CSCue48390	The SNMP agent reports channel information from the line card switchover state even after the cable modems are reverted to the original line card.
CSCue69870	The active route processor crashes during bootup due to an unknown cause and continuously displays error messages.
CSCue91514	When you apply a QoS profile with an enforce rule and then delete it, the standby PRE is reset due to "Config Sync: Bulk-sync failure" error.
CSCuf04800	Due to the redundancy configuration on the Cisco uBR-MC3G60V line card, after a switchover to the protecting MC3G60 card, the card crashes when reverting back to a working card.
CSCuf15414	The route processor may crash when modifying a cable filter group.
CSCuf23305	Cable modems may go offline after a line card switchover during multicast traffic.
CSCuf49063	The Cisco uBR-MC3GX60V line card crashes after the bootup if the Cisco, A+DTCC card is not inserted correctly into the slot.
CSCuf56496	During replacement of configuration, the PRE crashes.
CSCuf81108	The route processor crashes if the spectrum management group with the start time and end time is deleted more than two times.
CSCug00938	When single step ISSU changeversion is run, "%ISSU_PROCESS-7-DEBUG: % peer is not in terminal state" and "% issu changeversion failed to execute issurunversion" errors occur."
CSCug78143	When the docsIfCmtsServiceAdminStatus is set by SNMP, the line card crashes.
CSCug84030	Load balancing data on the Cisco MC520 line card is lost when there is a line card switchover, with Cisco MC520 line cards used as working and protect line cards.

Bug ID	Description
CSCuh26688	When the MTU is higher than 1500 bytes, input error counter increases.
CSCuh92149	When an automatic script for high availability line cards is run, the line card crashes. this occurs at <code>grd_hccp_api_idx_free_all</code> .
CSCuh99095	Internet Protocol Detail Record (IPDR) session hangs during normal operation.
CSCui22737	DSG Set-Top Boxes are stuck in AAP-1 mode (downloading application), display wrong timezone, and some channels are missing.
CSCui30218	If the upstream interface is already in the down state (operStatus of down), the SNMP set of "ifAdminStatus" for this upstream interface to "down" state results in two licenses being consumed as seen in the output to "show cable license all" command.
CSCui32838	When a DOCSIS 3.0 cable modem transmits up to its advertised Extended Upstream Transmit Power capability (up to 61dBmV), the CMTS limits or reduces the number of bonded US channels based on D3.0 default pwr limits / Reduced Transmit Channel Set (RTCS) pwr budget rules.
CSCui68381	When checkpoint firewall blocks some communication between the Cisco CMTS and some internal servers such as Cisco CNR or SCE Service Control Engine (SCE), the Cisco uBR10000 series router crashes.
CSCui82626	After a cable modem is moved by load balancing using a Dynamic Channel Change "init" technique that doesn't require reregistration ("init tech" 1 - 4) the CPE device classification is lost
CSCui86387	A Cable modem with an IPv6 address does not show a status of 5 while it is in "init6(t)" and "init6(o)" when SNMP polled for the status.
CSCui96672	The "cable wideband auto-reset" command does not move the narrow band modems to best available wideband interface.
CSCui98892	The TLV 43.5.11 (MPLS Pseudowire ID) cannot be assigned values larger than "0x7ffffff". The CableLabs Business Services over DOCSIS (BSoD) specification does not specify such a limitation.
CSCuj18810	Cisco uBR-MC3GX60V line card fails with the following error: SLOT 6/1: Sep 12 12:40:01.482 CST: %SYS-2-INTSCHED: 'idle' at level 1 -Process= "HCCP_DATA_W2", ipl= 1, pid= 202

Bug ID	Description
CSCuj45187	The last known good upstream frequency (UCID=1) after successful ranging is stored in non volatile memory as per specifications. The modem is moved to Cisco CMTS, and the Cisco CMTS has upstream frequency configuration for UCID=1 and UCID=4 on 28.6 MHz. The modem is physically cabled to UCID=4 on the upstream. When the modem sends out the B-INIT-RNG-REQs for UCID=1 on 28.6 Mhz it is picked up by the UCID 4 and the CMTS sends a RNG-RSP for UCID-4.
CSCuj45995	Line card crashes due to memory corruption.

Open Caveats—Cisco IOS Release 12.2(33)SCG5

Bug ID	Description
CSCtf14838	When an unconfigured wideband bonding group is re-configured with different RF channel bonding and change attribute mask configuration, error messages are displayed.
CSCtl16221	When the show licenses command is used, it displays incorrect count of licenses.
CSCtx75457	When an upgrade is performed to SCE or SCF release, error messages are reported when the Cisco CMTS is booting up from a reload. These messages also appear when CMTS, with SCE or later code, reloads.
CSCty18719	While configuring ACLs from multiple CLI terminals at the same time, the CPU utilization is high and Cisco IOS crashes.
CSCtz29975	In a large scale performance environment, such as eight Cisco uBR-MC3GX60V line cards in (7 + 1) redundancy mode, 120 MAC Domains, and 1000 cable modems, the standby PRE crashes on PRE switchover.
CSCua12456	The values for ccwbRFChannelUtilization and docsIfCmtsChannelUtUtilization are calculated incorrectly.
CSCua74782	Line card crashes due to FAUNA fatal error. However, the bits of "FAUNA_GBL_FATAL_INT" register are not set in the crashinfo file.
CSCua90867	When the no downstream modular-cable rf-channel command is executed, the system crashes.

Bug ID	Description
CSCub69658	The Cisco uBR10012 router creates a MAC address-based filter if TLV35 is configured in modem.config file. If some CPEs have multiple IPv4 addresses, the number of CPEs behind the modem could exceed limit set by TLV35. This violates DOCSIS 3.0 specification.
CSCuc10438	Upstream Bonding Group with ID greater than 65535 do not have any upstream channel members.
CSCuc42208	The Cisco CMTS router drops call flow when the specified cable service flow activity timeout value is reached.
CSCuc51823	The session on seventh channel drops into IDLE mode when the Cisco CMTS is configured with Cisco IOS Release 12.2(33)SCF4 and the frequency is shifted to 6 MHz.
CSCuc54680	During startup, the linecard crashes due to memory corruption and displays log.
CSCuc75012	The Burst Power Analysis and Band Power Analysis feature with a CBT3.5 Trace Window a Cisco CMTS router, always report a power level of -60 dBmV.
CSCuc83103	In a large scale environment, when dual stack is enabled on a Cisco CMTS router, error messages are displayed. A trace back or crash follows and the system hangs.
CSCuc95266	Configuring CLC redundancy on a 3G60 or 20x20 linecard in a Cisco uBR10012 router with N+1 redundancy, causes the linecard to crash. A protect linecard will take over the normal operation for the crashed linecard.
CSCud22985	When you use the no snmp-server enable traps docsis-cmts on a Cisco CMTS running the Cisco IOS Release 12.2(33)SCF3 and the modems switch channels, it continues to send DOCSIS Dynamic Channel Change (DCC) traps.
CSCud30202	Cable modems do not come online after upgrading an image and reloading the PRE. The cable modems come online after completing shut/no shut operation on the interface and activation of line card high availability.
CSCud32588	When configuring output service policy on port-channel interface, the MQC queues are not created for port-channel interface. This behavior is seen on PRE5 10GE and SPA 10GE interfaces.

Bug ID	Description
CSCud46092	PRE4 on Cisco uBR10012 router running Cisco IOS Release 12.2(33) SCF3 crashes with the "%SYS-6-STACKLOW: Stack for process C10K card_oir_up_action_process running low, 0/6000" error message.
CSCud47331	When a logical upstream DOCSIS mode is configured as TDMA or TDMA/A-TDMA mixed mode and channel width is configured as 200000 Hz, Cisco uBR-MC20X20V line card crashes.
CSCud53156	PRE crashes with the "TCP-2-INVALIDTCB Invalid TCB pointer: 0x14A20804 -Process="IPDR_EXP_PROC", ipl= 0, pid= 89" error message and a traceback.
CSCud59107	When SFP is plugged into active port, at the same time as fiber cable plugin, the traffic does not revert back to active port on the Cisco MC3G60V card.
CSCud61083	After multiple line card switch-overs, the line card crashes due to memory shortfall.
CSCud66175	Cisco CMTS crashes when the cable modems connect to Modena SPA online.
CSCud67629	When you use the show packetcable cms verbose command, the gate del and gate del ack counters overflow, if the counter value is more than 65535.
CSCud68948	When using the three step dynamic modulation profile, the upstream channels do not move to the most robust modulation profile.
CSCud85145	After a route processor switchover, no port is opened on the new active CMTS and the IPC message "CMTS IPC: inband" is displayed.
CSCud85776	When there are several DOCSIS Set-top gateway (DSG) classifiers and channel grouping domains (CGDs) in one mac-domain, then adding more CGDs to the mac-domain leads to CPU Hog and traceback messages.
CSCud85809	When a SNMP polling script is used to poll SNMP objects with a large number of online cable modems, CPU Hog occurs with DTCC card and line card crash.
CSCud91942	When an invalid RF channel number is configured on a wideband SPA and Cisco uBR-MC3GX60V line card, the PRE crashes.
CSCud93375	The protected line card crashes due to the Config Sync: Line-by-Line sync verifying failure. When it is reloaded, the route processor standby traceback error information is displayed.

Bug ID	Description
CSCud96977	PXF DMA Toaster Stall error is reported with some CPU Hog messages, due to line card and CMTS High Availability (HA) feature.
CSCud99628	When you use the issu runversion or abortversion or changeversion command, the TIMEOUT message is received from the PRE and all the linecards are reset.
CSCue02932	Rendezvous Point (RP) CPU usage spikes to 99% as IP Input process causes a spike of about 65%, because of the high channel change rate per cable modem.
CSCue03770	During a line card switch-over, protect line card crashes at <code>ifmib_register_if</code> .
CSCue07288	The route processor crashes after an IPv6 address is added, when clear modem and adding another IPv6 address is executed at the same time.
CSCue10014	A Upstream Channel Descriptor (UCD) timeout occurs when the RF channels are configured with more than three Wideband SPA controllers of the Cisco MAC domain and as they may not have the UCD information.
CSCue17456	When you use the cable acfe enable command, the route processor crashes at <code>acfe_build_topo_ctrlr</code> .
CSCue20266	Unexpected IPv4 uRPF failure on an MPLS-IP enabled interface, as IPv4 uRPF cfg is configured on port-channel 64.
CSCue29435	The Docs Cptype IPDR Process causes CPU Hog if the IPDR CPE session is not in ACTIVE or READY state.
CSCue29512	L3 PING loss is seen in wideband channel modems, after replacing the HCCP working linecard with the protect card.
CSCue30172	When you use the show cable modem ipv6 cpe command, the route processor crashes due to alignment or spurious memory access error.
CSCue33690	When Cisco CMTS software upgrade is performed from SCE3 to SCG1, log messages are displayed.
CSCue41062	When the server sends a DHCPNak message, the Cisco CMTS, running the Cisco IOS Release 12.2(33)SCG1, does not forward it to the end user devices.

Bug ID	Description
CSCue48390	The SNMP agent reports channel information from the line card switchover state even after the cable modems are reverted to the original line card.
CSCue57085	The Cisco uBR-MC3GX60V line card crashes at cmts_hccp_delete_inter_pkt_cfr_loc(0x250df50)+0xf8.
CSCue65274	When a route-map is configured using index 0 and then removed, it causes the route processor to crash in a non released image.
CSCue69870	The active route processor crashes during bootup due to an unknown cause and continuously displays error messages.
CSCue72031	During Cable Vision testing on CRDC LS test bed, the modems take more than one hour to come online.
CSCue75274	IPC problem occurs after PXF crash which triggers the route processor to crash, due to faulty management procedure.
CSCue80018	When you use the show depi session command immediately after re-configuring a previously deleted DEPI-class and plug out the line card in the DEPI tunnel, the active route processor.
CSCue89346	When you apply a service class to the RSVP and then remove it, the standby route processor is reset due to "cable rsvp default-scen xxx Config Sync: Bulk-sync" failure.
CSCue89818	When you use the no ip multicast-routing or ip multicast-routing command during CMTS bootup, I/O memory is used up and CPU Hog message appears due to "PIM process".
CSCue89917	The issu linecard changeversion all command fails to upgrade the protect linecard and is terminated due to a fully loaded chassis (more than 6 line cards) and heavy CPU load (more than 80%).
CSCue91514	When you apply a QoS profile with an enforce rule and then delete it, the standby PRE is reset due to "Config Sync: Bulk-sync failure" error.
CSCue97030	During the system bootup after a switchover from active PRE to a standby, it crashes causing the active PRE to crash. This occurs during RFS ISSU negotiation
CSCue98698	On ESR-PRE2, "DUAL_CLEANUP_ATTEMPT" and "CM_INCONSISTENCY" error messages are displayed with tracebacks.

Bug ID	Description
CSCuf04800	Due to the redundancy configuration on the Cisco uBR-MC3G60V line card, after a switchover to the protecting MC3G60 card, the card crashes when reverting back to a working card.
CSCuf15414	The route processor may crash when modifying a cable filter group.
CSCuf23305	Cable modems may go offline after a line card switchover during multicast traffic.
CSCuf49052	Error messages appear when the number of msessions and wideband interfaces is high, during route processor swichover.
CSCuf49063	The Cisco uBR-MC3GX60V line card crashes after the bootup if the Cisco DTCC card is not inserted correctly into the slot.
CSCuf51415	DOCSIS 2.0 modems become offline. "SINGLE_BIT_SEU_INT" error is seen before the modems become offline.
CSCuf57242	The number of offline modems displayed using the show cable modem summary command is high due to incomplete modem entries.
CSCuf71169	A cable interface line card may crash if a cable modem is reset periodically after enabling downstream resiliency.
CSCuf81108	The route processor crashes if the spectrum management group with the start time and end time is deleted more than two times.
CSCug00938	When single step ISSU changeversion is run, "%ISSU_PROCESS-7-DEBUG: % peer is not in terminal state" and "% issu changeversion failed to execute issurunversion" errors occur.'
CSCug14057	The Cisco uBR-MC3GX60V protect line card goes down without any crash or log if the member subslot command is used with the protect keyword.
CSCug18771	On Cisco 10012 router with Cisco uBR-MC3G60V line card using BRCM3142 chip, the upstream modulation error ratio (MER) is limited to 36.12 dB is observed.
CSCug61719	When an IP QoS policy is defined in an MPLS based BSoD implementation, the source and destination MAC addresses of the L2VPN frame are corrupted.

Bug ID	Description
CSCug62240	The show cable clock command displays the number of Timing, Communication and Control (TCC) cards in the Chassis as zero, as the DOCSIS Timing and Control Card (DTCC) continuously sends IPC timeout messages.
CSCug78143	When <code>docsIfCmtsServiceAdminStatus</code> is set by SNMP, the line card crashes.
CSCug84692	When <code>cmts_int_walk_cm_list</code> tries to delete cable modems, the PRE crashes.
CSCug87756	In a Cisco uBR-MC3G60V line card switchover, if the offline message is dropped, the line card crashes and a protected linecard takes over. Some of the wideband modems are stuck in <code>sinit()</code> state and the real state has to be reset.

Resolved Caveats—Cisco IOS Release 12.2(33)SCG5

Bug ID	Description
CSCug66273	When a 20-channel wideband interface is configured on a MAC domain, the linecard crashes.
CSCub73575	When multiple DHCPv6 LeaseQuery failure messages are displayed on the Cisco CMTS console, the processor engine and the console driver stop responding.
CSCuc12684	Ping DOCSIS test failed for modems showing status as online. Modem fails to drop offline after line card switchover/revertback performance.
CSCuc33742	An FPGA firmware issue might cause a line card crash.
CSCuc57298	When the show mpls for vrf command is used with the pathlist nonip keyword, the Cisco CMTS crashes.
CSCud28276	The Cisco CMTS crashes during reload when at least one line card remains in the Cisco CMTS chassis.
CSCud53756	All the modems on a specific upstream channel drop offline and the Map Late Flush Count increases with "test cable bcm3142 errors 2" reports. Other upstream channels on the same line card are not affected.
CSCud56136	When CPE with multiple IA_NA/IA_PD IPv6 addresses comes online and line card switches over, some or all the addresses are lost.

Bug ID	Description
CSCud56903	When CMTS is reloaded, "Config Sync: Bulk-sync failure" error leads to standby PRE reset.
CSCud60449	When no ipdr template command when IPDR exporter is running, the CMTS crashes.
CSCud83396	PXF crash occurs when the Cisco CMTS has IPv6 VPN Provider Edge (6PE/VPE) with disposition and de-aggregation traffic.
CSCud84792	When the free memory in the router is very low, the PRE crashes with the exception vector 1500 error message.
CSCud86014	The upstream scheduling for Unsolicited Grants (UGS) service flows (SFs) does not work correctly when the upstream channel bonding (USCB) feature is enabled in D-PON mode. The traffic flows only on one upstream channel with no packets flowing on the other channel.
CSCud86373	The Cisco CMTS crashes when the Packet Cable Multimedia (PCMM) gate is deleted through distributed QoS (dQoS) connection.
CSCud89401	On Cisco uBR10012 router with Cisco uBR-MC3GX60V line card running Cisco IOS Release 12.2(33)SCF4, the Cisco uBR-MC3GX60V line card crashed and displayed the "SYS-2-INTSCHED 'idle' at level 1 -Process= "CMTS MAC Parser", ipl= 1, pid= 84" error message with tracebacks.
CSCue01647	When an Online Removal and Insertion (OIR) is performed on the Cisco line cards, some of the cable modems go into P-ONLINE state.
CSCue03624	When you use the hw-module subslot reset command, DEPI tunnels on the SPA card are down when a Cisco SIP-600 exists on slot 1.
CSCue17010	On a Cisco CMTS running the Cisco Release 12.2(33)SCG1, a controller modular cable on modular RF channel, with Manual DEPI configured, cannot be shut down.
CSCue25698	On the Cisco CMTS, SNMP MIB docsIf3CmtsCmRegStatusRccStatusId does not update for cable modems in partial service modeto match the show cable modem partial-mode command.
CSCue27665	After the route processor switchover and shutdown/no shut bundle, it crashes at "cmts_parse_service_class_flowp".

Bug ID	Description
CSCue33879	While updating the gatespec on the existing gate-id , memory leak occurs as the COPS process was not releasing the memory.
CSCue39171	When you use the show cable modem partial-service command, as some or none of the cable modem's primary channel are not impaired, the impaired-DS is not displayed.
CSCue74517	In modems performing an upstream channel bonding, the "Good Codewords rx" counters are not completely cleared when the modem is reset.
CSCue79024	Multicast fails when DOCSIS3.0 Loadbalance moves cable modems to a new RCC set.
CSCuf21762	During a dynamic bonding change (DBC) operation when the cable modem fails to send the DBC response to the Cisco CMTS, the following error message is displayed: CMTS_INDEX_TABLE_FULL: DSID Index table full
CSCuf48801	Memory leak causes the Cisco uBR-MC3GX60V line card to crash after 19 or 20 weeks of continuous operation.
CSCuf64911	Invalid cable modem status events are recorded in the logs when a cable modem sends two Timing, Communication, and Control records in the registration acknowledgement (REG-ACK) messages during an upstream partial service.
CSCug10481	During normal operation, the PRE crashes because of invalid dynamic service change (DSC) message.
CSCug56104	When inserted in Cisco 10012 router with Catalyst 4500E Supervisor Engine 7-E, running Cisco IOS-XE software, the Cisco uBR-MC3GX60V line cards crash.
CSCug89868	When IPv6 lease query is enabled, some modems fail at init6(o) or init(t) stage during registration, when the modems receive a second DHCPv6 Advertise.

Open Caveats—Cisco IOS Release 12.2(33)SCG4

Bug ID	Description
CSCee18959	Core dump to server fails because extra information such as date/time is concatenated to the configured file name to be written to the server.
CSCti12590	Querying "getnext" with ipCidrRouteDest returns an OID that is not lexicographically larger than the queried OID.
CSCtk15093	When the CPEs, connected to DOCSIS 2.0 cable modems from two multicast VPNs and sharing a physical downstream forwarding interface, have joined same IGMP group with Multicast traffics, one CPE in one multicast VPN incorrectly receives traffic destined to a CPE in another multicast VPN.
CSCti66880	The show ip rsvp counters command does not display the port values.
CSCti72173	When there is are a high number of PPPoE sessions on the Cisco uBR10000 series universal broadband router, the LDP high availability process causes high CPU utilization on the secondary PRE. This forces the router to switchover.
CSCtk96446	When creating the OBFL file system for the first time and the uptime_exthist file is empty, there could be a temporary corruption in the flash device. This causes the OBFL Uptime application to stop functioning.
CSCti16221	When the show licenses command is used, it displays incorrect count of licenses.
CSCti22266	The DOCSIS general load balancing group information is lost from the mac domain cable modem service group after a PRE switchover occurs.
CSCtn96470	The carrier-to-noise ratio (CNR) accuracy varies on the Cisco uBR-MC3GX60V line card.
CSCty18719	While configuring ACLs from multiple CLI terminals at the same time, the CPU utilization is high and Cisco IOS crashes.
CSCty99658	Packetcable bit is not set for PacketCable Multimedia (PCMM) multicast.
CSCtz23513	During system bootup, the message "%SCHED-7-WATCH" and traceback is observed.
CSCtz29975	In a large scale performance environment, such as eight Cisco uBR-MC3GX60V line cards in (7 + 1) redundancy mode, 120 MAC Domains, and 1000 cable modems, the standby PRE crashes on PRE switchover.
CSCtz68573	When configurations of modular cable controller are deleted, the changes are not synchronized on the protect line card
CSCtz71368	On the Cisco uBR10012 running Cisco IOS Release 12.2(33)SCG, the output of the show hccp linecard subslot modem summary total command does not synchronize with the output of the show cable modem summary total command.
CSCtz80972	After moving the CM from IPv6 online/w-online to IPv4 online/w-online, a traceback occurs.

Bug ID	Description
CSCua06500	When HCCP is unconfigured after a line card switchover, the error message "Bad refcount in datagram_done" is displayed with traceback.
CSCua11055	when HCCP is configured for the Cisco uBR-MC3GX60V line card, followed by a switchover and a revertback occurs, and the card is physically removed and replaced again,
CSCua11695	Spurious memory access when changing the RF channel frequency through SNMP.
CSCua12085	After a Cisco uBR-MC3GX60V line card switchover, the show interface cable command displays incorrect packets input counter after a Cisco uBR-MC3GX60V line card switchover.
CSCua12456	The values for ccwbRFChannelUtilization and docsIfCmtsChannelUtUtilization are calculated incorrectly.
CSCua13328	When a running-configuration that does not have HCCP configured is replaced with a running-configuration that has HCCP configured, error messages are displayed.
CSCua15263	%HCCP-3-CFG_FAIL error message with error code 1 is displayed and traceback is observed when a line card switches over after the wideband SPA is removed.
CSCua20383	The throughput is 8.9 Mpps in system when the traffic is sent from WAN to CPE .
CSCua25760	After a Cisco UBR-MC20X20 line card switchover, error and warning messages are displayed while configuring HCCP.
CSCua25855	When DMIC is enabled and the configuration file name is different for IPv4 and IPv6 policies, cable modem can get IPv4 and IPv6 addresses from the CNR, but fails to get the configuration file.
CSCua33517	When an IP address is not configured as the secondary address, configuration of dhcp-giaddr policy host and secondary addresses under bundle interface is not accepted by the Cisco CMTS. However, no warning message is displayed that the configuration was not accepted.
CSCua34434	Although Alternative Provisioning Mode (APM) is configured as the IP provisioning mode, CM gets dual stack online.
CSCua35518	The cable modem name max-hosts command does not execute correctly.
CSCua36877	When cable modem registration throttling is enabled, cable modem throttling queue size is much larger than actual number of cable modems
CSCua38362	After performing line card and PRE switchover on the Cisco uBR-MC3GX60V line card, The show interface bundle command reports very high input and output rate, as well as high input and output counter values.
CSCua43769	When the same IP address is assigned to two different bundle interfaces, DHCP IP address assign mismatch error is displayed when the same IP address is assigned to two bundle interfaces.
CSCua45329	When Cisco CMTS is configured for IPv4 or IPv6 source-verify dhcp, Cisco CMTS is configured for DOCSIS 3.0 SAV for IPv4 or IPv6 and an upstream packet fails source-verify and to match the SAV subnet prefix, the Cisco CMTS does not issue DHCP Leasequery (LQ).

Bug ID	Description
CSCua46000	When standby PRE fails during the bootup and the "%IDBINDEX_SYNC-4-RESERVE: Failed to lookup existing ifindex for an interface on the Standby, allocating a new ifindex from the Active" error message is observed on the active PRE.
CSCua48865	When the configured service class is removed via SNMP, service class removed via SNMP is removed only in the active PRE, and exists in the standby PRE.
CSCua49227	When multiple telnet sessions are open to operate fiber-node configuration, fiber node configuration error occurs when two telnet sessions are open.
CSCua57078	The standby PRE reloads when redundancy configuration is changed on the active PRE.
CSCua59985	The new active PRE parses an invalid command card x/x No Card license 72X60 after the PRE crash and switchover.
CSCua60092	When there is no SPA card in a slot but the card and no card commands are executed for this slot and then the standby PRE4 is loaded, tracebacks are observed on the standby PRE.
CSCua62457	When two CPEs with duplicate MAC address are online simultaneously, one clear cable host mac-address command can clear only one of these CPEs.
CSCua65785	When a working card switches over to standby mode, wideband configuration cannot be performed using CLI. However, wideband configuration can be performed using SNMP, which causes RF channel inconsistencies between the working and protect line card.
CSCua69999	%NICKEL10G-3-N10GERREVT error message is observed during PXF reload.
CSCua70281	The downstream traffic goes down after PRE switchover.
CSCua70408	The deleted DOCSIS LBG appears in the show running and show cable load commands.
CSCua73564	When a Cisco uBR-MC3GX60 cable interface line card is added to Cisco uBR10012 router, a system log message (%LINEPROTO-X) is generated with a swidb_if_index_link_identity traceback.
CSCua74462	DBG resiliency count and time statistics information is lost after a line card switchover followed by a PRE switchover.
CSCua74782	Line card crashes due to FAUNA fatal error. However, the bits of "FAUNA_GBL_FATAL_INT" register are not set in the crashinfo file.
CSCua75101	DEPI sessions on the Cisco Wideband SPA go down after using shutdown and no shutdown commands for Cisco Wideband SPA.
CSCua75312	When MIB value is set via SNMP, the configuration is inconsistent between working and protect line cards.
CSCua75325	When configuring RF channel bandwidth for interface Wideband-Cable by SNMP operation, if the RF channel is from a different controller, then the RF channel is incorrectly configured on the standby PRE.
CSCua80124	Cable modem is not synchronized with the standby PRE.

Bug ID	Description
CSCua84970	After the no card command is used to remove a line card from running-config, the modular-host subslot configuration for a Wideband SPA can still point to the removed line card.
CSCua88497	Traceback is observed after resetting the SPA card and executing the show controller modular command.
CSCua90051	Fiber node upstream and downstream is inconsistent when the line card is added to HCCP group.
CSCua90867	When the no downstream modular-cable rf-channel command is executed, the system crashes.
CSCua92314	Cable modem may access uninitialized memory address.
CSCua93169	When the IPv6 address is changed in the bundle, DHCPv6 relay source address is incorrect. The old source address still exists.
CSCua95263	MQoS session range with invalid source prefix IP mask defaults to null IP mask (0.0.0.0).
CSCua97690	Inconsistency in different configuration sequences with rate-adapt when upstream utilization optimization is configured locally first and then enabled globally.
CSCub00817	During PXF microcode reload or PRE switchover, the transient error message "%NICKEL10G-3-N10GERREVT: TBB - ERR EVENT MSOP, port 0" is observed.
CSCub04150	After using the hw-module subslot 1/0 shutdown command, saving and reloading the system, DTI card in slot 1/1 cannot bootup.
CSCub04599	On Cisco uBR10000 router, the SAV may not work for DOCSIS 3.0 CM.
CSCub04652	Invalid logging on standby PRE in RPR mode while performing auto-generate on the active PRE.
CSCub10176	When the DTCC card is moved from one slot to another, the MIBs do not change.
CSCub10389	On a primary channel with narrowband modems, when wideband modem is online, those modems should select other channels as the primary channel.
CSCub14757	CM cannot come online when the fiber node contains two controllers RF channel with overlapping frequencies.
CSCub15514	After all the CMs are cleared from CMTS, CMs can still be seen in the pending list of DOCSIS 2.0 LBG.
CSCub17050	When the line card crashes, traceback and the error message "SYS-2-INSCHED" is observed when the line card crashes.
CSCub17736	When large number of CPEs are behind CM online, and test cable dcc command is executed for DCC initialization technique 1, CPUHOG and traceback are observed if DCC is performed when 250 CPEs are behind one modem.
CSCub23036	%SYS-2-MALLOCFAIL error message is observed on cable line cards.
CSCub25025	Cable monitor configuration is rejected for SPA WB interface.

Bug ID	Description
CSCub25128	With a large fiber node and dual-stack configured, "Unexpected fragment sequence number. Got 2 and expected 1" error message is observed on the modem console. Modems cannot come online with IPv6 when the error message appears.
CSCub27638	When one modem is configured with more than two different classifiers and the microcode reload pxf command is executed, the DS traffic, except for the first and last classifier traffic on the modem, is dropped.'
CSCub27686	Assertion fails with spurious memory access when the show cable modem service-flow verbose command is executed.
CSCub28061	The following error message and traceback are observed: !"%HCCP-3-CFG_FAIL: Configuration failed. Parsing on Cable5/0/0 (error 1) -Process= "HCCP_LC_CTRL", ipl= 0, pid= 386"
CSCub30613	Error message "DSID_DUPLICATE" and traceback observed after doing LC switch over on Cisco uBR-MC20X20V line card
CSCub33063	The show controllers integrated-cable mapping rf-channel command output is unclear on Cisco uBR7200 routers.
CSCub33605	When a cable modem is assigned a load balancing group ID (LBG ID), it fails to move into the designated load balancing group and the modem is not listed in the load balancing group modem list.
CSCub35871	The standby RP may show "%UBR10K_REDUNDANCY-4-RP_HA_STDBY_INCONSISTENT" messages on console, when the line card is reset.
CSCub37666	The CPE type remains static instead of DHCPv6.
CSCub41631	The output of show controllers integrated-cable mapping wb-channel is unclear for Cisco uBR7246 router.
CSCub41655	Inconsistent output of the show controller integrated-cable command.
CSCub42368	The outputs of the show cable l2-vpn xconnect dot1q-vc-map modem-mac verbose and show cable l2-vpn xconnect mpls-vc-map modem-mac verbose commands are the same for dot1q L2VPN service.
CSCub43523	Switchover fails during the Cisco UBR-RFSW-ADV image upgrade.
CSCub44765	Cable modem cannot get all the IPv4 and IPv6 address via MIB cdxCmToCpeTable when more than 255 IPv6 and IPv4 addresses exist in hosts under one cable modem.
CSCub45028	The pending counter does not clear on channel shutdown.
CSCub47047	The shutdown and no shutdown of Cisco uBR-MC3GX60V GE (SFP) port causes insert OIR event in call home.
CSCub47647	When the protect line card is down and the line card switches over, the cable modem or CPE goes offline. However, the show ipv6 dhcp relay binding and show ipv6 route static commands still show the PD route.
CSCub52401	IPv6 spoof MAC detection is not available in IPv6 calling path.
CSCub53183	Two CISCO-ENTITY-FRU-CONTROL MIB errors are seen when the hw-module subslot subslot# reload command is used for any SPA on the UBR1000 platform.

Bug ID	Description
CSCub54877	A dynamic bonding group (DBG) is not automatically shut after the RF impairment recovery.
CSCub54975	The error message "%C10K-3-LC_ERR" is observed during normal system bootup.
CSCub57967	One Cisco uBR-MC3GX60V line card works as the modular host line card of SPA and protect card at the same time.
CSCub59823	The value of docsIf3BondingGrpCfgChList using SNMP GET is null for cross controller.
CSCub64405	A wrong "IP MTU" configuration message appears in interface configuration when 10 Gigabit Ethernet SPA is configured with MTU and the 10 Gigabit Ethernet SPA interface is removed and added.
CSCub64465	The show pxf cpu mpls command displays incorrect VRF table IDs for MPLS labels.
CSCub64552	Configuration is not recovered after shutdown operation on Cisco UBR-MC20X20V line card.
CSCub65411	All routed packets are incorrectly counted in the show interface stats command on tunnel interface.
CSCub67370	IPv6 ACL cannot be applied to GRE tunnel interface through startup-config file after reboot.
CSCub69512	Error message and tracebacks are observed when configuring Q-in-Q backhaul sub-interfaces.
CSCub69658	The Cisco uBR10012 router creates a MAC address-based filter if TLV35 is configured in modem.config file. If some CPEs have multiple IPv4 addresses, the number of CPEs behind the modem could exceed limit set by TLV35. This violates DOCSIS 3.0 specification.
CSCub73575	When multiple DHCPv6 LeaseQuery failure messages are displayed on the Cisco CMTS console, the processor engine and the console driver stop responding.
CSCub74764	If docsLoadBalGrpDefaultPolicy is configured with a non-existent policy ID, then the show running-config command displays the non-existent policy ID.
CSCub76060	When the cable ds-resiliency command is used, the warning message "Wideband-Cable6/0/0:0 is set to WB resiliency bonding group. Remove all existing configurations" is displayed. However, only rf-channel and bundle configurations are removed. The admission-control or other configurations are not removed.
CSCub76172	Memory leakage occurs when the virtual bundle fails.
CSCub76413	When QoS is disabled on PRE5, the throughput is downgraded to 3.3Mpps for IPv4 MPLS VPN downstream traffic (WAN->CPE).
CSCub79220	Using the show idb comand, the link status of GigabitEthernet interfaces on standby PRE on Cisco uBR-MC3GX60V line card is shown erroneously.
CSCub79278	When IPv6 address is added to rogue database DHCPv6 leasequery sending should be disabled. However, DHCPv6 leasequery sending continues and traffic continues to be sent from the rogue IPv6 address.

Bug ID	Description
CSCub79300	After repeatedly adding and removing trusted IPv6 addresses with the same IP address, mask, and ToS values, the "no" form of the service divert-rate-limit trusted-site-ipv6 command fails.
CSCub83514	When timeout parameters are configured using commands, the no form of the <i>activity-timeout</i> and <i>admission-timeout</i> arguments of the cable service class command fail.
CSCub83745	When CPEs join and leave mcast groups, the 'Failed to write BPI entry to Jib3DS 0' error is displayed.
CSCub88667	After a Dynamic Bonding Change (DBC) operation, the cable modem cannot be pinged.
CSCub88707	The Cisco CMTS router denies requests for giant IPC packets after a route processor switchover.
CSCub88833	Running the clear ip access-list dynamic counters command triggers spurious memory access and adds traceback information in the logging buffer of the Cisco uBR10012 router.
CSCub89046	CPE is added to wrong cable modem after leasequery.
CSCub89510	The Cisco CMTS router does not reject real-time polling service (RTPS) service flow with an invalid policy.
CSCub91406	The output of show pxf cable feature-table does not distinguish between DHCPv4 and DHCPv6 source verify inquiries when the source verification of the IPv6 packets is configured on the bundle interface.
CSCub92875	The IPv6 neighbor table is not recovered, and some cable modems cannot be pinged after the multicast downstream service identifier (DSID) forwarding capability is disabled on the Cisco CMTS router.
CSCuc03382	When bays 2 and 3 of Cisco uBR10012 router have Shared Port Adapter cards, and the show diag command is used to get the SPA card information, the show diag command fails.
CSCuc05554	When Performance Routing Engine (PRE) high availability is activated on a bundle interface configured for IPv4 and IPv6 unicast and multicast traffic, Multicast Listener Discovery (MLD) on the bundle interface is disabled.
CSCuc10438	Upstream Bonding Group with ID greater than 65535 do not have any upstream channel members.
CSCuc11266	Error message "cmts_chk_any_spa_ds: p_info is NULL" is displayed for modems that register with the downstream channels on Cisco uBR-MC20X20V line card as primary downstream channels and bonding groups on remote Shared Port Adapter card as downstream bonding groups.
CSCuc12684	Ping DOCSIS test failed for modems showing status as online. Modem fails to drop offline after line card switchover/reverback performance.
CSCuc15140	The SNMP agent does not send any traps when cTap2StreamInterceptEnable is false and cTap2StreamStatus is changed from active to "nonService."
CSCuc15156	When cTap2StreamInterceptEnable is set to false, two debug entries are created (cTap2DebugEntry).
CSCuc18671	The Cisco 5-Port Gigabit Ethernet SPA does not forward downstream TLS dot1q Layer 2 VPN traffic.

Bug ID	Description
CSCuc21450	The Cisco CMTS router allows you to set the submanagement default value to a filter group that does not exist.
CSCuc33742	An FPGA firmware issue might cause a line card crash.
CSCuc37333	JIB3 Register information that is usually collected by using show tech-support or any command used to collect debug information on controllers is missing for Cisco IOS Release 12.2(33)SCG.
CSCuc37650	Field-Programmable Device image upgrade failure while upgrading two or more Shared Port Adapter at the same time.
CSCuc38680	Information for narrow-band downstream channels is not updated when show controller down command is used.
CSCuc40752	When CPU or memory threshold and cable admission-control event cm-register are configured, show cable admission control global command displayed that the counter is increased when current value is higher than threshold. If only cable admission-control event dynamic service command is configured, the counter is not increased even when current value is higher than threshold.
CSCuc41201	On reload with a number of interfaces, if line card redundancy is configured in start-up, default service flow is not created on Wideband interface.
CSCuc43190	If you execute the all version of the clear cable modem commands when the number of modems are greater than 1000 and there are more than 10 classifiers per modem the %SYS-2-INTSCHED error message and traceback are displayed.
CSCuc51823	The session on seventh channel drops into IDLE mode when the Cisco CMTS is configured with Cisco IOS Release 12.2(33)SCF4 and the frequency is shifted to 6 MHz.
CSCuc55282	Field-Programmable Device image upgrade using Trivial File Transfer Protocol (TFTP) failed for Shared Port Adapter (SPA) using the upgrade hw-module [slot slot-number] file file-url command.
CSCuc55351	After Dynamic Bonding Change (DBC), ping test to online cable modem failed.
CSCuc57809	show cable load-balance docsis-group n target command displayed target although there were no load balancing action, after line card high availability activation.
CSCuc66994	Following the use of the show cable modem command, a cable line card (Cisco uBR-MC20X20V or Cisco uBR-MC3GX60V) crashed and %REQGRP-3-SYSCALL error message and traceback is displayed.
CSCuc69863	While configuring a protect tunnel in Downstream External PHY Interface (DEPI) tunnel configuration, configuration of a working tunnel as protect tunnel should be rejected.
CSCuc70582	After deleting a line card using the no form of card slot/subslot command, the no form of cable monitor interface command fails.
CSCuc71501	In the CMTS IOS downstream data forwarding path, if the CMTS subscriber database has a Customer-premises equipment (CPE), the CMTS does not issue a DHCPv6 leasequery which can recover all CPE data including adding the CPE to the Neighbor Discovery (ND) cache.

Bug ID	Description
CSCuc72969	Cable filter group configuration lost on leasequery after CMTS reload or line card Online Insertion and Removal (OIR).
CSCuc75845	When cable clock dti command is configured or removed, UC Command 403 failure error is displayed.
CSCuc77773	When multiple SNMP traps are configured to one snmp-server host, some traps are lost.
CSCuc77926	Spurious memory access error message and traceback displayed on both active and standby Performance Router Engines (PREs).
CSCuc78831	The effect of plim input map ip precedence command configured on wide area network Shared Port Adapter (SPA) interface is not removed after plim input map ip dscp-based command configured.
CSCuc80671	When the show cr10k-rp wideband-cable queue command is used, the queues corresponding to the single SID specified in the command, are not displayed.
CSCuc82877	Route Processor console displays the “SPA TSM Error: PSM_GOT_INSERTED_WHEN_NOT_EXPECTED” error.
CSCuc83205	The error message “Spurious access@cmts_hccp_process_inter_sid_instance_loc” is displayed when Hot Standby Connection to Connection Protocol (HCCP) is configured on Cisco uBR-MC3GX60V line card.
CSCuc84764	A DEPI tunnel that is configured as protect-tunnel for another tunnel, can be removed using the no depi-tunnel command, if no sessions are established using that DEPI tunnel. If any sessions are established using the DEPI tunnel then it cannot be removed and a warning message is displayed.
CSCuc87108	When a DEPI class name is configured with the maximum number of characters (80), the DEPI class name is saved. However, the name is displayed with only 79 characters when the show running-config command is used.
CSCuc87362	When c802tapStreamStatus is configured to 2 (nonService) from 1 (active), no trap or cTap2DebugEntry is generated for it. However, when c802tapStreamStatus is changed from nonService to Active, a trap and cTap2DebugEntry is generated. The cTap2DebugMessage displayed is "MAC Stream modification successful".
CSCuc88089	Memory leakage observed on HCCP_DATA_P2 process, when HCCP is configured on Cisco uBR-MC3GX60V line card.
CSCuc92143	The subinterface configured on DEPI interface is still displayed after the SPA card has been removed using the no card command.
CSCuc92908	When a protect tunnel is overwritten by another tunnel configuration, it cannot be configured again. To configure it again, the overwritten tunnel must be configured with the protect-tunnel command and then the no form of the protect-tunnel command must be used.
CSCuc92930	When the show interface command is used on the 1Gbps SPA card to display Flow Control, Flow Control is not displayed.

Bug ID	Description
CSCuc99577	If the destination IP is used to configure a protect tunnel, belongs to a working tunnel, the show depi session command displays wrong information about the primary and secondary activity status.
CSCuc99918	When the show depi session endpoints command is executed, the result does not have any header line.
CSCud00216	When a cable bundle is configured with wrong cable bundle number and Request for Services (RFS) is configured, the cable bundle mismatch error is displayed. Then if the cable bundle is configured with the correct bundle number, "Bundle already exists on this interface" is displayed. This occurs on Cisco uBR10012 router with Cisco uBR-MC3GX60V line card.
CSCud05267	When Policy-map configuration on interfaces is reloaded, the configuration fails and the error message "%MCE-3-TCAM_FULL_NOMERGE: TCAM full, QoS Policy-map <policy-map name> could not be loaded" is displayed.
CSCud06317	Traceback error occurs when no card command is executed on Cisco uBR10012 router with wideband SPA.
CSCud06503	One vty is configured with a QOS rule using cable qos enforce-rule command and the rule is removed on second vty using no form of the command. When the Synchronous Transport Module (STM) is configured through the second vty, the PRE crashes.
CSCud06636	When two Telnet sessions running in cable fiber-node configuration mode and one Telnet mode exits from the configuration mode, the second Telnet session does not exit from the cable fiber-node configuration mode.
CSCud06765	When one vty session is in redundancy configuration mode and line card redundancy group is removed in another vty session, line card redundancy configuration on the first vty is unsuccessful.
CSCud06795	The PRE crashes after exiting from a non-existent pseudowire class.
CSCud07118	When one user is accessing a Broadband Aggregation group (BBA-Group), and another user removes the BBA-Group, the PRE crashes because the first user is still accessing the removed BBA-Group.
CSCud09868	When no forms of cable qos enforce-rule commands are used, the configuration develops errors.
CSCud11616	During cable modem configuration, if the slot range is 5 to 8, the RF channel status is displayed as Integrated-cable rf-channel instead of modular-cable rf-channel, although the RF channel is configured as modular-cable rf-channel.
CSCud16147	When DTI status error (bug CSCud44570) occurs during Route Processor Redundancy mode switchover, and the jacket card is removed incorrectly, errors and tracebacks occur.
CSCud16252	Traceback error occurs when standby PRE5 is removed and modems are online via IPv4 and IPv6 with call-home configurations enabled.
CSCud17425	show cable rf-status command with integrated-cable option displays status of cable interface although there is no integrated cable interface on Cisco uBR10012 router.

Bug ID	Description
CSCud17431	PRE resets in silent mode when parser error and traceback occurs and the “%SNMP-5-LINK_DOWN” and “%REDUNDANCY-3-STANDBY_LOST” errors are displayed:
CSCud18726	show diag crashdump command is not supported in Cisco uBR10012 router.
CSCud19901	During DTCC OIR, Wrong TSS Phy error messages are displayed.
CSCud21149	When more than one sub-interface is configured in DEPI, removal of the interface with no card command fails. After SSO the standby PRE resets repeatedly due to bulk-sync failure.
CSCud22477	%PARSER-4-BADRANGELONGLONG error message is displayed when cable admission-control max-reserved-bandwidth command is used.
CSCud23971	If the secondary channel width (<i>last-choice-width</i> in cable upstream channel-width command) is greater than 1.6 MHz in the A-TDMA configuration, then the secondary channel width is not changed when the DOCSIS mode is changed from A-TDMA to SCDMA mode.
CSCud25251	MATCHED cmts_ipv6_match_prefix messages displayed for PRE5 running Version 12.2(122SC_20121115) should be hidden.
CSCud25721	When CMTS connects first to low-priority collector and then high-priority collector, the CMTS switches over. After the high-priority collector is disconnected, the CMTS switches over to the low-priority collector, but the IPDR data exporter fails.
CSCud25804	After PXF is reloaded, “%IPC-5-INVALID: Message Port index Dest Port” error message is displayed and the PRE5 crashes.
CSCud25827	After the PRE switches over, the jacket card resets and the “%PXF_NICKEL-3-IRONBUS_NOTRUNNING”, and “%IPC-2-INVALIDZONE: Invalid IPC Zone 0xF00000” error messages are displayed.
CSCud26231	When two different types of SPA cards are located on the same Spumoni, one type of SPA card is recognised as the other type of SPA card.
CSCud26404	The show interface counters command displays wrong packet counter information when 10 G EtherChannel port-channel sends high amount of traffic to the 10G SPA.
CSCud28665	When line card redundancy is configured and the line card is removed from the slot, no card inserted message is displayed and removal of redundancy configuration is not allowed. Support for removal of redundancy configuration after removal of line card is required.
CSCud30202	Cable modems do not come online after upgrading an image and reloading the PRE. The cable modems come online after completing shut/no shut operation on the interface and activation of line card high availability.
CSCud31088	The onboard failure logging (OBFL) uptime application fails due to a temporary corruption of flash drive and the uptime extend history file is empty, when the OBFL file system is created for the first time. The OBFL uptime application does not recover from this error.

Bug ID	Description
CSCud32155	When the license revoke command is used, the license count does not reduce or change, on Cisco uBR10012 router with Cisco uBR-MC3GX60V line card running Cisco IOS Release 12.2(33)SCF4.
CSCud32428	During feature interaction testing on PRE5 for Cross Controller Bonding, Dynamic Bonding Group Resiliency and Multicast on Pre5 features, while doing line card switchover, the "Error - STAT_SET non local ReMan 5/1 nui30" error occurred.
CSCud32588	When configuring output service policy on port-channel interface, the MQC queues are not created for port-channel interface. This behavior is seen on PRE5 10GE and SPA 10GE interfaces.
CSCud33825	During PRE reload after it has crashed, all the line cards fail to reboot and the poer LED indicators of the line cards remain OFF.
CSCud33959	After a successful dynamic bonding change (DBC) to Modena Receive Channel Configuration (RCC) by configuring a rcc-template, the traffic is lost because Modena does not support Baseline Privacy Interface(BPI) Advanced Encryption Standard (AES).
CSCud34360	PacketCable MultiMedia (PCMM) multicast session does not recover after a PRE switchover on a SPA wideband interface on Cisco uBR-MC3GX60V line card.
CSCud35507	While configuring multiple IA_PD/IA_NA addresses for CPE, the maximum number of IPv6 address configurable is 8.
CSCud37649	The show cable modem summary cable upstream command fails and shows the wrong prompt.
CSCud37833	When the NGSPA on slots 3/2 and 3/3 and the Jacket card is reset, the "obfl_process_dequeue" error and traceback occurs.
CSCud37959	When the start-up configuration runs, the no card command in the configuration fails in the active PRE. The no card command succeeds in the standby PRE.
CSCud39795	The shut command executed in the Modena IP interface fails and the physical link does not shut down.
CSCud40161	When line card switchover occurs, "cmts_dsg_adv_check_rule_validity" fails, displaying the "%SCHED-2-EDISMSCRIT" error and "HCCP_LC_DATA" traceback.
CSCud40550	When the 4jacket-1 card resets and is reloading, the SNMP requests fail, displaying traceback error.
CSCud40556	Cable modem status messages for static multicast downstream ID display the unicast downstream IDs in logs.
CSCud42262	If the SPA is used as downstream channel while the Cisco uBR-MC3GX60V line card switches over, traffic is interrupted for 10 seconds.
CSCud42325	When Toaster is highly congested, the traffic counters count congested packets as input error packets.
CSCud44283	With DOCSIS 3.0 and wideband modems connected to Cisco uBR10012 router, after a dynamic bonding change, the timing effect of modems increases to two times the normal timing effect.

Bug ID	Description
CSCud44570	In Route Processor Redundancy mode, during PRE switch over, DTCC is not detected and DOCSIS Timing Interface (DTI) displays wrong status.
CSCud44837	When there is no change in Management Console (MC) interface, but wideband interface channel has changed, valid wideband interface does not associate with mac-domain. Wideband interfaces are not displayed in rcc-list.
CSCud45121	When VPN Routing and Forwarding (VRF) is enabled, some cable modems on the VPN do not have correct Customer-premises Equipment (CPE) prefix and cannot be pinged.
CSCud45313	When load balancing group configuration is written on line card with protect downstream channels and the CMTS is reloaded, the protect member of the line card is removed.
CSCud45920	When the system is configured with logging console and logging console guaranteed commands, the log messages are not displayed in proper order on the console.
CSCud45934	When the number of channels in a MD-DS-SG is greater than 24, the wideband cable modems do not move to w-online state on certain primary interface.
CSCud46092	PRE4 on Cisco uBR10012 router running Cisco IOS Release 12.2(33) SCF3 crashes with the "%SYS-6-STACKLOW: Stack for process C10K card_oir_up_action_process running low, 0/6000" error message.
CSCud47331	When a logical upstream DOCSIS mode is configured as TDMA or TDMA/A-TDMA mixed mode and channel width is configured as 200000 Hz, Cisco uBR-MC20X20V line card crashes.
CSCud48789	When the CMTS sends an incomplete dynamic bonding change request (DBC-REQ), a modem responds with a dynamic bonding change response (DBC-RSP) to indicate the error to the CMTS. The CMTS resends the DBC-REQ but does not respond to the bandwidth request from the modem's transmit channel set (TCS).
CSCud50053	After cable modems are in w-online mode, when dynamic bonding change is executed using test cable dbc Mac-address sfid SFID Bonding-group-id command, the CMTS log indicates successful dynamic bonding change, but the show cable modem Mac-address service-flow command displays that the related FrwdIF change failed.
CSCud52134	If the modem is dual-stack, and comes online after the protect line card is ready, after line card switchover, both md_ds_sg_id and md_us_sg_id of modem are reset to zero.
CSCud52766	When the PRE switches from active PRE A to standby PRE B; line card switches from working line card to protect line card and the PRE switches back to PRE A with upstream traffic of more than 10M pps ipv6, a traceback observed
CSCud53156	PRE crashes with the "TCP-2-INVALIDTCB Invalid TCB pointer: 0x14A20804 -Process="IPDR_EXP_PROC", ipl= 0, pid= 89" error message and a traceback.

Bug ID	Description
CSCud53756	All the modems on a specific upstream channel drop offline and the Map Late Flush Count increases with "test cable bcm3142 errors 2" reports. Other upstream channels on the same line card are not affected.
CSCud54997	When a large number of modems come online simultaneously and undergo dynamic bonding change, the status of a number of modems is wrongly displayed as cloned.
CSCud56136	When CPE with multiple IA_NA/IA_PD IPv6 addresses comes online and line card switches over, some or all the addresses are lost.
CSCud56903	When CMTS is reloaded, "Config Sync: Bulk-sync failure" error leads to standby PRE reset.
CSCud58359	After dynamic bonding change, the service-flow management selected the wideband interface with lower bandwidth instead of the wideband interface with higher bandwidth.
CSCud58757	When all MAC domain interfaces are put into the online insertion and removal (OIR) state, by using the hw-module stop command on the Cisco uBR-MC88V line cards, the DOCSIS Set-Top Gateway (DSG) configuration on cable interfaces is not restored.
CSCud59107	When SFP is plugged into active port, at the same time as fiber cable plugin, the traffic does not revert back to active port on the Cisco MC3G60V card.
CSCud59604	After line card is reset using hw_module reset command and PRE switchover, all the DEPI sessions fail and the "%C10KEVENTMGR-4-IRONBUS_FAULT" error message is displayed.
CSCud60444	When the connection is unstable, though the outstanding queue is full, the IPDR exporter fails.
CSCud60449	When no ipdr template command when IPDR exporter is running, the CMTS crashes.
CSCud60925	When CPU usage is high, and bi-direction traffic is sent, then "spurious memory access" error when do linecard switchover & revert.
CSCud61008	Configuring upstream channel for Load Balancing Group (LBG) in descending order fails without displaying an error message.
CSCud61083	After multiple line card switch-overs, the line card crashes due to memory shortfall.
CSCud64045	If cable ip-init command is configured on cable interface, then line card switched over, the configuration synchronises with the protect line card, but if docsIf3MdCfgIpProvMode is set through SNMP, the configuration does not synchronise with the protect line card causing inconsistency issues.
CSCud66762	After no dest-ip command is used and PRE switched over, the DEPI tunnel fails.
CSCud76053	When the active PRE switches over to the standby PRE, the cable interface ifSpeed value changes.
CSCud76618	Under normal conditions, the fiber node information is not updated when the frequency for the upstream group is changed through spectrum management.

Bug ID	Description
CSCud78232	When show cable modem resiliency status command is used wrongly, show cable modem summary wb-rfs command displays the same output for both modular-cable and integrated-cable options
CSCud78262	During normal operation, when a crash occurs or the hw-module command resets the protect line card no SNMP trap is sent.
CSCud78401	In the output of show cable modem, if the IP address of a modem is a long value, it extends to next column.
CSCud78797	When the show packetcable gate ipv6 summary command is used, wrong output for PacketCable gates associated with IPv6 subscriber IDs for DQOS, is displayed.
CSCud78839	When the fiber-node is configured and the show cable fiber-node association command is used, the narrow band channel ID is zero for Cisco uBR-MC20X20V and Cisco uBR-MC3GX60V line cards.
CSCud79411	When one Gigabit Ethernet interface is shutdown and no shutdown command used for interface range mode without configuring the begin interface range , the IF state of standby PRE is erroneous.
CSCud80873	When configuring the downstream modular-cable rf-channel command, the standby PRE crashes.
CSCud81164	With Cisco uBR-MC3GX60V line card configured as protect line card, when snmp (setccwBRFChannelModulation) is set on the protect line card, inconsistency issues are observed between working line card and protect line card.
CSCud83345	When the 4jacket-1 card is pre-configure without the physical jacket on the CMTS and PRE switchover is performed, the elements of entPhysicalEntry table for 4jacket-1 containers are not synchronised.
CSCud83465	When the modem configuration file is changed and shut/no shut operation is performed on the Gigabit Ethernet port to allow the modems offline or online, status of some modems is displayed as w-online but the modems and the CPEs behind them cannot be pinged. The BPI key for these modems is not correct.
CSCud84792	When the free memory in the router is very low, the PRE crashes with the the exception vector 1500 error message.
CSCud85776	When there are several DOCSIS Set-top gateway (DSG) classifiers and channel grouping domains (CGDs) in one mac-domain, then adding more CGDs to the mac-domain leads to CPU Hog and traceback messages.
CSCud86014	The upstream scheduling for Unsolicited Grants (UGS) service flows (SFs) does not work correctly when the upstream channel bonding (USCB) feature is enabled in D-PON mode. The traffic flows only on one upstream channel with no packets flowing on the other channel.
CSCud86837	When default class is not configured in the policy map, the sum of class bandwidth configured in one policy map could exceed 100 percent and no alert message is displayed.
CSCud87301	If priority is configured first and then schedule type is configured, priority configuration is not valid and an error message is not displayed to show invalid configuration sequence.

Bug ID	Description
CSCud89401	On Cisco uBR10012 router with Cisco uBR-MC3GX60V line card running Cisco IOS Release 12.2(33)SCF4, the Cisco uBR-MC3GX60V line card crashed and displayed the "SYS-2-INTSCHED 'idle' at level 1 -Process="CMTS MAC Parser", ipl= 1, pid= 84" error message with tracebacks.
CSCud90921	Spacing between "Prim Sid" and "Online Status" columns in the output of the of show cable modem registered/unregister command.
CSCud91095	When a certain configuration sequence is used, the A and L bits are set wrongly in the router advertisement (RA) message sent out by CMTS bundle interface.
CSCud91942	When an invalid RF channel number is configured on a wideband SPA and Cisco uBR-MC3GX60V line card, the PRE crashes.
CSCud92352	When hostname styled DSG classifiers were configured successfully and there are many channels configured in DSG tunnel group, CPU Hog message on DSG process is displayed.
CSCue24970	The Cisco CMTS does not renew the DHCPv6 lease request for a CPE when that CPE already has 15 IPv6 addresses (including the IA_PD and GUA) assigned to it.
CSCuf21762	During a dynamic bonding change (DBC) operation when the cable modem fails to send the DBC response to the Cisco CMTS, the following error message is displayed: CMTS_INDEX_TABLE_FULL: DSID Index table full
CSCu158523	The upstream channel remains in the Disaster Recovery (DR) status even after recovering from the RF impairment on the Cisco CMTS using the Cisco uBR-MC3GX60V line card.

Resolved Caveats—Cisco IOS Release 12.2(33)SCG4

Bug ID	Description
CSCue15313	Error messages like "OVERLAP_IP" are displayed on the Cisco uBR10012 router when dual stack is enabled on the router and the IPv4 and IPv6 addresses have the same HASH result.

Open Caveats—Cisco IOS Release 12.2(33)SCG3

Bug ID	Description
CSCee18959	Core dump to server fails because extra information such as date/time is concatenated to the configured file name to be written to the server.
CSCti12590	Querying "getnext" with ipCidrRouteDest returns an OID that is not lexicographically larger than the queried OID.

Bug ID	Description
CSCtk15093	When the CPEs, connected to DOCSIS 2.0 cable modems from two multicast VPNs and sharing a physical downstream forwarding interface, have joined same IGMP group with Multicast traffics, one CPE in one multicast VPN incorrectly receives traffic destined to a CPE in another multicast VPN.
CSCti66880	The show ip rsvp counters command does not display the port values.
CSCti72173	When there is are a high number of PPPoE sessions on the Cisco uBR10000 series universal broadband router, the LDP high availability process causes high CPU utilization on the secondary PRE. This forces the router to switchover.
CSCtk96446	When creating the OBFL file system for the first time and the uptime_exthist file is empty, there could be a temporary corruption in the flash device. This causes the OBFL Uptime application to stop functioning.
CSCti16221	When the show licenses command is used, it displays incorrect count of licenses.
CSCti22266	The DOCSIS general load balancing group information is lost from the mac domain cable modem service group after a PRE switchover occurs.
CSCtn96470	The carrier-to-noise ratio (CNR) accuracy varies on the Cisco uBR-MC3GX60V line card.
CSCty18719	While configuring ACLs from multiple CLI terminals at the same time, the CPU utilization is high and Cisco IOS crashes.
CSCty99658	Packetcable bit is not set for PacketCable Multimedia (PCMM) multicast.
CSCtz23513	During system bootup, the message "%SCHED-7-WATCH" and traceback is observed.
CSCtz29975	In a large scale performance environment, such as eight Cisco uBR-MC3GX60V line cards in (7 + 1) redundancy mode, 120 MAC Domains, and 1000 cable modems, the standby PRE crashes on PRE switchover.
CSCtz68573	When configurations of modular cable controller are deleted, the changes are not synchronized on the protect line card
CSCtz71368	On the Cisco uBR10012 running Cisco IOS Release 12.2(33)SCG, the output of the show hccp linecard subslot modem summary total command does not synchronize with the output of the show cable modem summary total command.
CSCtz80972	After moving the CM from IPv6 online/w-online to IPv4 online/w-online, a traceback occurs.
CSCua06500	When HCCP is unconfigured after a line card switchover, the error message "Bad refcount in datagram_done" is displayed with traceback.
CSCua11055	when HCCP is configured for the Cisco uBR-MC3GX60V line card, followed by a switchover and a revertback occurs, and the card is physically removed and replaced again,
CSCua11695	Spurious memory access when changing the RF channel frequency through SNMP.

Bug ID	Description
CSCua12085	After a Cisco uBR-MC3GX60V line card switchover, the show interface cable command displays incorrect packets input counter after a Cisco uBR-MC3GX60V line card switchover.
CSCua12456	The values for ccwbrRFChannelUtilization and docsIfCmtsChannelUtUtilization are calculated incorrectly.
CSCua13328	When a running-configuration that does not have HCCP configured is replaced with a running-configuration that has HCCP configured, error messages are displayed.
CSCua15263	%HCCP-3-CFG_FAIL error message with error code 1 is displayed and traceback is observed when a line card switches over after the wideband SPA is removed.
CSCua20383	The throughput is 8.9 Mpps in system when the traffic is sent from WAN to CPE .
CSCua25760	After a Cisco UBR-MC20X20 line card switchover, error and warning messages are displayed while configuring HCCP.
CSCua25855	When DMIC is enabled and the configuration file name is different for IPv4 and IPv6 policies, cable modem can get IPv4 and IPv6 addresses from the CNR, but fails to get the configuration file.
CSCua33517	When an IP address is not configured as the secondary address, configuration of dhcp-giaddr policy host and secondary addresses under bundle interface is not accepted by the Cisco CMTS. However, no warning message is displayed that the configuration was not accepted.
CSCua34434	Although Alternative Provisioning Mode (APM) is configured as the IP provisioning mode, CM gets dual stack online.
CSCua35518	The cable modem name max-hosts command does not execute correctly.
CSCua36877	When cable modem registration throttling is enabled, cable modem throttling queue size is much larger than actual number of cable modems
CSCua38362	After performing line card and PRE switchover on the Cisco uBR-MC3GX60V line card, The show interface bundle command reports very high input and output rate, as well as high input and output counter values.
CSCua43769	When the same IP address is assigned to two different bundle interfaces, DHCP IP address assign mismatch error is displayed when the same IP address is assigned to two bundle interfaces.
CSCua45329	When Cisco CMTS is configured for IPv4 or IPv6 source-verify dhcp, Cisco CMTS is configured for DOCSIS 3.0 SAV for IPv4 or IPv6 and an upstream packet fails source-verify and to match the SAV subnet prefix, the Cisco CMTS does not issue DHCP Leasequery (LQ).
CSCua46000	When standby PRE fails during the bootup and the "%IDBINDEX_SYNC-4-RESERVE: Failed to lookup existing ifindex for an interface on the Standby, allocating a new ifindex from the Active" error message is observed on the active PRE.

Bug ID	Description
CSCua48865	When the configured service class is removed via SNMP, service class removed via SNMP is removed only in the active PRE, and exists in the standby PRE.
CSCua49227	When multiple telnet sessions are open to operate fiber-node configuration, fiber node configuration error occurs when two telnet sessions are open.
CSCua57078	The standby PRE reloads when redundancy configuration is changed on the active PRE.
CSCua59985	The new active PRE parses an invalid command card x/x No Card license 72X60 after the PRE crash and switchover.
CSCua60092	When there is no SPA card in a slot but the card and no card commands are executed for this slot and then the standby PRE4 is loaded, tracebacks are observed on the standby PRE.
CSCua62457	When two CPEs with duplicate MAC address are online simultaneously, one clear cable host mac-address command can clear only one of these CPEs.
CSCua65785	When a working card switches over to standby mode, wideband configuration cannot be performed using CLI. However, wideband configuration can be performed using SNMP, which causes RF channel inconsistencies between the working and protect line card.
CSCua69999	%NICKEL10G-3-N10GERREVT error message is observed during PXF reload.
CSCua70281	The downstream traffic goes down after PRE switchover.
CSCua70408	The deleted DOCSIS LBG appears in the show running and show cable load commands.
CSCua73564	When a Cisco uBR-MC3GX60 cable interface line card is added to Cisco uBR10012 router, a system log message (%LINEPROTO-X) is generated with a swidb_if_index_link_identity traceback.
CSCua74462	DBG resiliency count and time statistics information is lost after a line card switchover followed by a PRE switchover.
CSCua74782	Line card crashes due to FAUNA fatal error. However, the bits of "FAUNA_GBL_FATAL_INT" register are not set in the crashinfo file.
CSCua75101	DEPI sessions on the Cisco Wideband SPA go down after using shutdown and no shutdown commands for Cisco Wideband SPA.
CSCua75312	When MIB value is set via SNMP, the configuration is inconsistent between working and protect line cards.
CSCua75325	When configuring RF channel bandwidth for interface Wideband-Cable by SNMP operation, if the RF channel is from a different controller, then the RF channel is incorrectly configured on the standby PRE.
CSCua80124	Cable modem is not synchronized with the standby PRE.
CSCua84970	After the no card command is used to remove a line card from running-config, the modular-host subslot configuration for a Wideband SPA can still point to the removed line card.

Bug ID	Description
CSCua88497	Traceback is observed after resetting the SPA card and executing the show controller modular command.
CSCua90051	Fiber node upstream and downstream is inconsistent when the line card is added to HCCP group.
CSCua90867	When the no downstream modular-cable rf-channel command is executed, the system crashes.
CSCua92314	Cable modem may access uninitialized memory address.
CSCua93169	When the IPv6 address is changed in the bundle, DHCPv6 relay source address is incorrect. The old source address still exists.
CSCua95263	MQoS session range with invalid source prefix IP mask defaults to null IP mask (0.0.0.0).
CSCua97690	Inconsistency in different configuration sequences with rate-adapt when upstream utilization optimization is configured locally first and then enabled globally.
CSCub00817	During PXF microcode reload or PRE switchover, the transient error message "%NICKEL10G-3-N10GERREVT: TBB - ERR EVENT MSOP, port 0" is observed.
CSCub04150	After using the hw-module subslot 1/0 shutdown command, saving and reloading the system, DTI card in slot 1/1 cannot bootup.
CSCub04599	On Cisco uBR10000 router, the SAV may not work for DOCSIS 3.0 CM.
CSCub04652	Invalid logging on standby PRE in RPR mode while performing auto-generate on the active PRE.
CSCub10176	When the DTCC card is moved from one slot to another, the MIBs do not change.
CSCub10389	On a primary channel with narrowband modems, when wideband modem is online, those modems should select other channels as the primary channel.
CSCub14757	CM cannot come online when the fiber node contains two controllers RF channel with overlapping frequencies.
CSCub15514	After all the CMs are cleared from CMTS, CMs can still be seen in the pending list of DOCSIS 2.0 LBG.
CSCub17050	When the line card crashes, traceback and the error message "SYS-2-INSCHED" is observed when the line card crashes.
CSCub17736	When large number of CPEs are behind CM online, and test cable dcc command is executed for DCC initialization technique 1, CPUHOG and traceback are observed if DCC is performed when 250 CPEs are behind one modem.
CSCub23036	%SYS-2-MALLOCFAIL error message is observed on cable line cards.
CSCub25025	Cable monitor configuration is rejected for SPA WB interface.
CSCub25128	With a large fiber node and dual-stack configured, "Unexpected fragment sequence number. Got 2 and expected 1" error message is observed on the modem console. Modems cannot come online with IPv6 when the error message appears.

Bug ID	Description
CSCub27638	When one modem is configured with more than two different classifiers and the microcode reload pxf command is executed, the DS traffic, except for the first and last classifier traffic on the modem, is dropped.
CSCub27686	Assertion fails with spurious memory access when the show cable modem service-flow verbose command is executed.
CSCub28061	The following error message and traceback are observed: !"%HCCP-3-CFG_FAIL: Configuration failed. Parsing on Cable5/0/0 (error 1) -Process= "HCCP_LC_CTRL", ipl= 0, pid= 386"
CSCub30613	Error message "DSID_DUPLICATE" and traceback observed after doing LC switch over on Cisco uBR-MC20X20V line card
CSCub33063	The show controllers integrated-cable mapping rf-channel command output is unclear on Cisco BR7200 routers.
CSCub33605	When a cable modem is assigned a load balancing group ID (LBG ID), it fails to move into the designated load balancing group and the modem is not listed in the load balancing group modem list.
CSCub35871	The standby RP may show "%UBR10K_REDUNDANCY-4-RP_HA_STDBY_INCONSISTENT" messages on console, when the line card is reset.
CSCub37666	The CPE type remains static instead of DHCPv6.
CSCub41631	The output of show controllers integrated-cable mapping wb-channel is unclear for Cisco uBR7246 router.
CSCub41655	Inconsistent output of the show controller integrated-cable command.
CSCub42368	The outputs of the show cable l2-vpn xconnect dot1q-vc-map modem-mac verbose and show cable l2-vpn xconnect mpls-vc-map modem-mac verbose commands are the same for dot1q L2VPN service.
CSCub43523	Switchover fails during the Cisco UBR-RFSW-ADV image upgrade.
CSCub44765	Cable modem cannot get all the IPv4 and IPv6 address via MIB cdxCmToCpeTable when more than 255 IPv6 and IPv4 addresses exist in hosts under one cable modem.
CSCub45028	The pending counter does not clear on channel shutdown.
CSCub47047	The shutdown and no shutdown of Cisco uBR-MC3GX60V GE (SFP) port causes insert OIR event in call home.
CSCub47647	When the protect line card is down and the line card switches over, the cable modem or CPE goes offline. However, the show ipv6 dhcp relay binding and show ipv6 route static commands still show the PD route.
CSCub52401	IPv6 spoof MAC detection is not available in IPv6 calling path.
CSCub53183	Two CISCO-ENTITY-FRU-CONTROL MIB errors are seen when the hw-module subslot subslot# reload command is used for any SPA on the UBR1000 platform.
CSCub54877	A dynamic bonding group (DBG) is not automatically shut after the RF impairment recovery.
CSCub54975	The error message "%C10K-3-LC_ERR" is observed during normal system bootup.

Bug ID	Description
CSCub57967	One Cisco uBR-MC3GX60V line card works as the modular host line card of SPA and protect card at the same time.
CSCub59823	The value of docsIf3BondingGrpCfgChList using SNMP GET is null for cross controller.
CSCub64405	A wrong "IP MTU" configuration message appears in interface configuration when 10 Gigabit Ethernet SPA is configured with MTU and the 10 Gigabit Ethernet SPA interface is removed and added.
CSCub64465	The show pxf cpu mpls command displays incorrect VRF table IDs for MPLS labels.
CSCub64552	Configuration is not recovered after shutdown operation on Cisco UBR-MC20X20V line card.
CSCub65411	All routed packets are incorrectly counted in the show interface stats command on tunnel interface.
CSCub67370	IPv6 ACL cannot be applied to GRE tunnel interface through startup-config file after reboot.
CSCub69512	Error message and tracebacks are observed when configuring Q-in-Q backhaul sub-interfaces.
CSCub69658	The Cisco uBR10012 router creates a MAC address-based filter if TLV35 is configured in modem.config file. If some CPEs have multiple IPv4 addresses, the number of CPEs behind the modem could exceed limit set by TLV35. This violates DOCSIS 3.0 specification.
CSCub74764	If docsLoadBalGrpDefaultPolicy is configured with a non-existent policy ID, then the show running-config command displays the non-existent policy ID.
CSCub76060	When the cable ds-resiliency command is used, the warning message "Wideband-Cable6/0/0:0 is set to WB resiliency bonding group. Remove all existing configurations" is displayed. However, only rf-channel and bundle configurations are removed. The admission-control or other configurations are not removed.
CSCub76172	Memory leakage occurs when the virtual bundle fails.
CSCub76413	When QoS is disabled on PRE5, the throughput is downgraded to 3.3Mpps for IPv4 MPLS VPN downstream traffic (WAN->CPE).
CSCub79220	Using the show idb comand, the link status of GigabitEthernet interfaces on standby PRE on Cisco uBR-MC3GX60V line card is hsown erroneously.
CSCub79278	When IPv6 address is added to rogue database DHCPv6 leasequery sending should be be disabled. However, DHCPv6 leasequery sending continues and traffic continues to be sent from the rogue IPv6 address.
CSCub79300	After repeatedly adding and removing trusted IPv6 addresses with the same IP address, mask, and ToS values, the "no" form of the service divert-rate-limit trusted-site-ipv6 command fails.
CSCub83514	When timeout parameters are configured using commands, the no form of the <i>activity-timeout</i> and <i>admission-timeout</i> arguments of the cable service class command fail.

Bug ID	Description
CSCub83630	When an unsupported tunnel mode is configured, all Generic Routing Encapsulation (GRE) tunnel packets are lost.
CSCub83745	When CPEs join and leave mcast groups, the "Failed to write BPI entry to Jib3DS 0" error is displayed.
CSCub88667	After a Dynamic Bonding Change (DBC) operation, the cable modem cannot be pinged.
CSCub88707	The Cisco CMTS router denies requests for giant IPC packets after a route processor switchover.
CSCub88833	Running the clear ip access-list dynamic counters command triggers spurious memory access and adds traceback information in the logging buffer of the Cisco uBR10012 router.
CSCub89046	CPE is added to wrong cable modem after leasequery.
CSCub89510	The Cisco CMTS router does not reject real-time polling service (RTPS) service flow with an invalid policy.
CSCub91406	The output of show pxf cable feature-table does not distinguish between DHCPv4 and DHCPv6 source verify inquiries when the source verification of the IPv6 packets is configured on the bundle interface.
CSCub92875	The IPv6 neighbor table is not recovered, and some cable modems cannot be pinged after the multicast downstream service identifier (DSID) forwarding capability is disabled on the Cisco CMTS router.
CSCuc00074	Duplicated DSID cable modem fail to synchronise on Cisco Shared Port Adapter (SPA) 520 series.
CSCuc03382	When bays 2 and 3 of Cisco uBR10012 router have Shared Port Adapter cards, and the show diag command is used to get the SPA card information, the show diag command fails.
CSCuc05554	When Performance Routing Engine (PRE) high availability is activated on a bundle interface configured for IPv4 and IPv6 unicast and multicast traffic, Multicast Listener Discovery (MLD) on the bundle interface is disabled.
CSCuc10438	Upstream Bonding Group with ID greater than 65535 do not have any upstream channel members.
CSCuc11266	Error message "cmts_chk_any_spa_ds: p_info is NULL" is displayed for modems that register with the downstream channels on Cisco uBR-MC20X20V line card as primary downstream channels and bonding groups on remote Shared Port Adapter card as downstream bonding groups.
CSCuc12684	Ping DOCSIS test failed for modems showing status as online. Modem fails to drop offline after line card switchover/reverback performance.
CSCuc15140	The SNMP agent does not send any traps when cTap2StreamInterceptEnable is false and cTap2StreamStatus is changed from active to "nonService."
CSCuc15156	When cTap2StreamInterceptEnable is set to false, two debug entries are created (cTap2DebugEntry).
CSCuc18671	The Cisco 5-Port Gigabit Ethernet SPA does not forward downstream TLS dot1q Layer 2 VPN traffic.

Bug ID	Description
CSCuc21450	The Cisco CMTS router allows you to set the submanagement default value to a filter group that does not exist.
CSCuc33742	An FPGA firmware issue might cause a line card crash.
CSCuc37333	JIB3 Register information that is usually collected by using show tech-support or any command used to collect debug information on controllers is missing for Cisco IOS Release 12.2(33)SCG.
CSCuc37650	Field-Programmable Device image upgrade failure while upgrading two or more Shared Port Adapter at the same time.
CSCuc38680	Information for narrow-band downstream channels is not updated when show controller down command is used.
CSCuc40752	When CPU or memory threshold and cable admission-control event cm-register are configured, show cable admission control global command displayed that the counter is increased when current value is higher than threshold. If only cable admission-control event dynamic service command is configured, the counter is not increased even when current value is higher than threshold.
CSCuc41201	On reload with a number of interfaces, if line card redundancy is configured in start-up, default service flow is not created on Wideband interface.
CSCuc43190	If you execute the all version of the clear cable modem commands when the number of modems are greater than 1000 and there are more than 10 classifiers per modem the %SYS-2-INTSCHED error message and traceback are displayed.
CSCuc51823	The session on seventh channel drops into IDLE mode when the Cisco CMTS is configured with Cisco IOS Release 12.2(33)SCF4 and the frequency is shifted to 6 MHz.
CSCuc55282	Field-Programmable Device image upgrade using Trivial File Transfer Protocol (TFTP) failed for Shared Port Adapter (SPA) using the upgrade hw-module [slot slot-number] file file-url command.
CSCuc55351	After Dynamic Bonding Change (DBC), ping test to online cable modem failed.
CSCuc57679	For a Cisco uBR10012 router configured with more than five Cisco uBR-MC3GX60V line cards, the “%IDBINDEX_SYNC-4-RESERVE: Failed to lookup existing ifindex for an interface on the Standby, allocating a new ifindex from the Active” error message and traceback is displayed.
CSCuc57809	show cable load-balance docsis-group n target command displayed target although there were no load balancing action, after line card high availability activation.
CSCuc66994	Following the use of the show cable modem command, a cable line card (Cisco uBR-MC20X20V or Cisco uBR-MC3GX60V) crashed and %REQGRP-3-SYSCALL error message and traceback is displayed.
CSCuc69863	While configuring a protect tunnel in Downstream External PHY Interface (DEPI) tunnel configuration, configuration of a working tunnel as protect tunnel should be rejected.

Bug ID	Description
CSCuc70582	After deleting a line card using the no form of card slot/subslot command, the no form of cable monitor interface command fails.
CSCuc71501	In the CMTS IOS downstream data forwarding path, if the CMTS subscriber database has a Customer-premises equipment (CPE), the CMTS does not issue a DHCPv6 leasequery which can recover all CPE data including adding the CPE to the Neighbor Discovery (ND) cache.
CSCuc72969	Cable filter group configuration lost on leasequery after CMTS reload or line card Online Insertion and Removal (OIR).
CSCuc75845	When cable clock dti command is configured or removed, UC Command 403 failure error is displayed.
CSCuc77773	When multiple SNMP traps are configured to one snmp-server host, some traps are lost.
CSCuc77926	Spurious memory access error message and traceback displayed on both active and standby Performance Router Engines (PREs).
CSCuc78831	The effect of plim input map ip precedence command configured on wide area network Shared Port Adapter (SPA) interface is not removed after plim input map ip dscp-based command configured.
CSCuc80671	When the show cr10k-rp wideband-cable queue command is used, the queues corresponding to the single SID specified in the command, are not displayed.
CSCuc82877	Route Processor console displays the “SPA TSM Error: PSM_GOT_INSERTED_WHEN_NOT_EXPECTED” error.
CSCuc83205	The error message “Spurious access@cmts_hccp_process_inter_sid_instance_loc” is displayed when Hot Standby Connection to Connection Protocol (HCCP) is configured on Cisco uBR-MC3GX60V line card.
CSCuc84764	A DEPI tunnel that is configured as protect-tunnel for another tunnel, can be removed using the no depi-tunnel command, if no sessions are established using that DEPI tunnel. If any sessions are established using the DEPI tunnel then it cannot be removed and a warning message is displayed.
CSCuc87108	When a DEPI class name is configured with the maximum number of characters (80), the DEPI class name is saved. However, the name is displayed with only 79 characters when the show running-config command is used.
CSCuc87362	When c802tapStreamStatus is configured to 2 (nonService) from 1 (active), no trap or cTap2DebugEntry is generated for it. However, when c802tapStreamStatus is changed from nonService to Active, a trap and cTap2DebugEntry is generated. The cTap2DebugMessage displayed is "MAC Stream modification successful".
CSCuc88089	Memory leakage observed on HCCP_DATA_P2 process, when HCCP is configured on Cisco uBR-MC3GX60V line card.
CSCuc92143	The subinterface configured on DEPI interface is still displayed after the SPA card has been removed using the no card command.

Bug ID	Description
CSCuc92908	When a protect tunnel is overwritten by another tunnel configuration, it cannot be configured again. To configure it again, the overwritten tunnel must be configured with the protect-tunnel command and then the no form of the protect-tunnel command must be used.
CSCuc92930	When the show interface command is used on the 1Gbps SPA card to display Flow Control, Flow Control is not displayed.
CSCuc99577	If the destination IP is used to configure a protect tunnel, belongs to a working tunnel, the show depi session command displays wrong information about the primary and secondary activity status.
CSCuc99918	When the show depi session endpoints command is executed, the result does not have any header line.
CSCud00216	When a cable bundle is configured with wrong cable bundle number and Request for Services (RFS) is configured, the cable bundle mismatch error is displayed. Then if the cable bundle is configured with the correct bundle number, "Bundle already exists on this interface" is displayed. This occurs on Cisco uBR10012 router with Cisco uBR-MC3GX60V line card.
CSCud05267	When Policy-map configuration on interfaces is reloaded, the configuration fails and the error message "%MCE-3-TCAM_FULL_NOMERGE: TCAM full, QoS Policy-map <policy-map name> could not be loaded" is displayed.
CSCud06317	Traceback error occurs when no card command is executed on Cisco uBR10012 router with wideband SPA.
CSCud06503	One vty is configured with a QOS rule using cable qos enforce-rule command and the rule is removed on second vty using no form of the command. When the Synchronous Transport Module (STM) is configured through the second vty, the PRE crashes.
CSCud06636	When two Telnet sessions running in cable fiber-node configuration mode and one Telnet mode exits from the configuration mode, the second Telnet session does not exit from the cable fiber-node configuration mode.
CSCud06765	When one vty session is in redundancy configuration mode and line card redundancy group is removed in another vty session, line card redundancy configuration on the first vty is unsuccessful.
CSCud06795	The PRE crashes after exiting from a non-existent pseudowire class.
CSCud07118	When one user is accessing a Broadband Aggregation group (BBA-Group), and another user removes the BBA-Group, the PRE crashes because the first user is still accessing the removed BBA-Group.
CSCud09868	When no forms of cable qos enforce-rule commands are used, the configuration develops errors.
CSCud11596	After LCSO reverts back to the primary line card, the cable upstream resiliency on-failure reset-modem command fails.
CSCud11616	During cable modem configuration, if the slot range is 5 to 8, the RF channel status is displayed as Integrated-cable rf-channel instead of modular-cable rf-channel, although the RF channel is configured as modular-cable rf-channel.

Bug ID	Description
CSCud13370	During bootup, if the jacket cards are reset and PRE switches over before two line cards are online, the modems on both the line cards drop offline. This occurs when only DOCSIS Timing Interface (DTI) of a line card is not connected to DTI server and modems on all line cards use that line card as clock.
CSCud16147	When DTI status error (bug CSCud44570) occurs during Route Processor Redundancy mode switchover, and the jacket card is removed incorrectly, errors and tracebacks occur.
CSCud16252	Traceback error occurs when standby PRE5 is removed and modems are online via IPv4 and IPv6 with call-home configurations enabled.
CSCud17425	show cable rf-status command with integrated-cable option displays status of cable interface although there is no integrated cable interface on Cisco uBR10012 router.
CSCud17431	PRE resets in silent mode when parser error and traceback occurs and the “%SNMP-5-LINK_DOWN” and “%REDUNDANCY-3-STANDBY_LOST” errors are displayed:
CSCud18726	show diag crashdump command is not supported in Cisco uBR10012 router.
CSCud19901	During DTCC OIR, Wrong TSS Phy error messages are displayed.
CSCud21149	When more than one sub-interface is configured in DEPI, removal of the interface with no card command fails. After SSO the standby PRE resets repeatedly due to bulk-sync failure.
CSCud22477	%PARSER-4-BADRANGELONGLONG error message is displayed when cable admission-control max-reserved-bandwidth command is used.
CSCud23971	If the secondary channel width (<i>last-choice-width</i> in cable upstream channel-width command) is greater than 1.6 MHz in the A-TDMA configuration, then the secondary channel width is not changed when the DOCSIS mode is changed from A-TDMA to SCDMA mode.
CSCud25251	MATCHED cmts_ipv6_match_prefix messages displayed for PRE5 running Version 12.2(122SC_20121115) should be hidden.
CSCud25721	When CMTS connects first to low-priority collector and then high-priority collector, the CMTS switches over. After the high-priority collector is disconnected, the CMTS switches over to the low-priority collector, but the IPDR data exporter fails.
CSCud25804	After PXF is reloaded, “%IPC-5-INVALID: Message Port index Dest Port” error message is displayed and the PRE5 crashes.
CSCud25827	After the PRE switches over, the jacket card resets and the “%PXF_NICKEL-3-IRONBUS_NOTRUNNING”, and “%IPC-2-INVALIDZONE: Invalid IPC Zone 0xF00000” error messages are displayed.
CSCud26231	When two different types of SPA cards are located on the same Spumoni, one type of SPA card is recognised as the other type of SPA card.

Bug ID	Description
CSCud26404	The show interface counters command displays wrong packet counter information when 10 G EtherChannel port-channel sends high amount of traffic to the 10G SPA.
CSCud28665	When line card redundancy is configured and the line card is removed from the slot, no card inserted message is displayed and removal of redundancy configuration is not allowed. Support for removal of redundancy configuration after removal of line card is required.
CSCud30202	Cable modems do not come online after upgrading an image and reloading the PRE. The cable modems come online after completing shut/no shut operation on the interface and activation of line card high availability.
CSCud31088	The onboard failure logging (OBFL) uptime application fails due to a temporary corruption of flash drive and the uptime extend history file is empty, when the OBFL file system is created for the first time. The OBFL uptime application does not recover from this error.
CSCud32155	When the license revoke command is used, the license count does not reduce or change, on Cisco uBR10012 router with Cisco uBR-MC3GX60V line card running Cisco IOS Release 12.2(33)SCF4.
CSCud32428	During feature interaction testing on PRE5 for Cross Controller Bonding, Dynamic Bonding Group Resiliency and Multicast on Pre5 features, while doing line card switchover, the "Error - STAT_SET non local ReMan 5/1 nui30" error occurred.
CSCud32588	When configuring output service policy on port-channel interface, the MQC queues are not created for port-channel interface. This behavior is seen on PRE5 10GE and SPA 10GE interfaces.
CSCud33825	During PRE reload after it has crashed, all the line cards fail to reboot and the poer LED indicators of the line cards remain OFF.
CSCud33959	After a successful dynamic bonding change (DBC) to Modena Receive Channel Configuration (RCC) by configuring a rcc-template, the traffic is lost because Modena does not support Baseline Privacy Interface(BPI) Advanced Encryption Standard (AES).
CSCud34360	PacketCable MultiMedia (PCMM) multicast session does not recover after a PRE switchover on a SPA wideband interface on Cisco uBR-MC3GX60V line card.
CSCud35507	While configuring multiple IA_PD/IA_NA addresses for CPE, the maximum number of IPv6 address configurable is 8.
CSCud37649	The show cable modem summary cable upstream command fails and shows the wrong prompt.
CSCud37833	When the NGSPA on slots 3/2 and 3/3 and the Jacket card is reset, the "obfl_process_dequeue" error and traceback occurs.
CSCud37959	When the start-up configuration runs, the no card command in the configuration fails in the active PRE. The no card command succeeds in the standby PRE.
CSCud39795	The shut command executed in the Modena IP interface fails and the physical link does not shut down.

Bug ID	Description
CSCud40161	When line card switchover occurs, "cmts_dsg_adv_check_rule_validity" fails, displaying the "%SCHED-2-EDISMSCRIT" error and "HCCP_LC_DATA" traceback.
CSCud40550	When the 4jacket-1 card resets and is reloading, the SNMP requests fail, displaying traceback error.
CSCud40556	Cable modem status messages for static multicast downstream ID display the unicast downstream IDs in logs.
CSCud42262	If the SPA is used as downstream channel while the Cisco uBR-MC3GX60V line card switches over, traffic is interrupted for 10 seconds.
CSCud42325	When Toaster is highly congested, the traffic counters count congested packets as input error packets.
CSCud44283	With DOCSIS 3.0 and wideband modems connected to Cisco uBR10012 router, after a dynamic bonding change, the timing effect of modems increases to two times the normal timing effect.
CSCud44570	In Route Processor Redundancy mode, during PRE switch over, DTCC is not detected and DOCSIS Timing Interface (DTI) displays wrong status.
CSCud44837	When there is no change in Management Console (MC) interface, but wideband interface channel has changed, valid wideband interface does not associate with mac-domain. Wideband interfaces are not displayed in rcc-list.
CSCud45121	When VPN Routing and Forwarding (VRF) is enabled, some cable modems on the VPN do not have correct Customer-premises Equipment (CPE) prefix and cannot be pinged.
CSCud45313	When load balancing group configuration is written on line card with protect downstream channels and the CMTS is reloaded, the protect member of the line card is removed.
CSCud45920	When the system is configured with logging console and logging console guaranteed commands, the log messages are not displayed in proper order on the console.
CSCud45934	When the number of channels in a MD-DS-SG is greater than 24, the wideband cable modems do not move to w-online state on certain primary interface.
CSCud46092	PRE4 on Cisco uBR10012 router running Cisco IOS Release 12.2(33) SCF3 crashes with the "%SYS-6-STACKLOW: Stack for process C10K card_oir_up_action_process running low, 0/6000" error message.
CSCud47331	When a logical upstream DOCSIS mode is configured as TDMA or TDMA/A-TDMA mixed mode and channel width is configured as 200000 Hz, Cisco uBR-MC20X20V line card crashes.
CSCud48789	When the CMTS sends an incomplete dynamic bonding change request (DBC-REQ), a modem responds with a dynamic bonding change response (DBC-RSP) to indicate the error to the CMTS. The CMTS resends the DBC-REQ but does not respond to the bandwidth request from the modem's transmit channel set (TCS).

Bug ID	Description
CSCud50053	After cable modems are in w-online mode, when dynamic bonding change is executed using test cable dbc Mac-address sfid SFID Bonding-group-id command, the CMTS log indicates successful dynamic bonding change, but the show cable modem Mac-address service-flow command displays that the related FrwdIF change failed.
CSCud52134	If the modem is dual-stack, and comes online after the protect line card is ready, after line card switchover, both md_ds_sg_id and md_us_sg_id of modem are reset to zero.
CSCud52766	When the PRE switches from active PRE A to standby PRE B; line card switches from working line card to protect line card and the PRE switches back to PRE A with upstream traffic of more than 10M pps ipv6, a traceback observed
CSCud53156	PRE crashes with the "TCP-2-INVALIDTCB Invalid TCB pointer: 0x14A20804 -Process="IPDR_EXP_PROC", ipl= 0, pid= 89" error message and a traceback.
CSCud53756	All the modems on a specific upstream channel drop offline and the Map Late Flush Count increases with "test cable bcm3142 errors 2" reports. Other upstream channels on the same line card are not affected.
CSCud54997	When a large number of modems come online simultaneously and undergo dynamic bonding change, the status of a number of modems is wrongly displayed as cloned.
CSCud55368	SNMP MIB ifXTable provides wrong values for BroadcastPkts value.
CSCud56136	When CPE with multiple IA_NA/IA_PD IPv6 addresses comes online and line card switches over, some or all the addresses are lost.
CSCud56903	When CMTS is reloaded, "Config Sync: Bulk-sync failure" error leads to standby PRE reset.
CSCud58359	After dynamic bonding change, the service-flow management selected the wideband interface with lower bandwidth instead of the wideband interface with higher bandwidth.
CSCud58757	When all MAC domain interfaces are put into the online insertion and removal (OIR) state, by using the hw-module stop command on the Cisco uBR-MC88V line cards, the DOCSIS Set-Top Gateway (DSG) configuration on cable interfaces is not restored.
CSCud59107	When SFP is plugged into active port, at the same time as fiber cable plugin, the traffic does not revert back to active port on the Cisco MC3G60V card.
CSCud59604	After line card is reset using hw_module reset command and PRE switchover, all the DEPI sessions fail and the "%C10KEVENTMGR-4-IRONBUS_FAULT" error message is displayed.
CSCud60444	When the connection is unstable, though the outstanding queue is full, the IPDR exporter fails.
CSCud60449	When no ipdr template command when IPDR exporter is running, the CMTS crashes.

Bug ID	Description
CSCud60925	When CPU usage is high, and bi-direction traffic is sent, then "spurious memory access" error when do linecard switchover & revert.
CSCud61008	Configuring upstream channel for Load Balancing Group (LBG) in descending order fails without displaying an error message.
CSCud61083	After multiple line card switch-overs, the line card crashes due to memory shortfall.
CSCud64045	If cable ip-init command is configured on cable interface, then line card switched over, the configuration synchronises with the protect line card, but if docsIf3MdCfgIpProvMode is set through SNMP, the configuration does not synchronise with the protect line card causing inconsistency issues.
CSCud66762	After no dest-ip command is used and PRE switched over, the DEPI tunnel fails.
CSCud76053	When the active PRE switches over to the standby PRE, the cable interface ifSpeed value changes.
CSCud76618	Under normal conditions, the fiber node information is not updated when the frequency for the upstream group is changed through spectrum management.
CSCud78232	When show cable modem resiliency status command is used wrongly, show cable modem summary wb-rfs command displays the same output for both modular-cable and integrated-cable options
CSCud78262	During normal operation, when a crash occurs or the hw-module command resets the protect line card no SNMP trap is sent.
CSCud78401	In the output of show cable modem , if the IP address of a modem is a long value, it extends to next column.
CSCud78797	When the show packetcable gate ipv6 summary command is used, wrong output for PacketCable gates associated with IPv6 subscriber IDs for DQOS, is displayed.
CSCud78839	When the fiber-node is configured and the show cable fiber-node association command is used, the narrow band channel ID is zero for Cisco uBR-MC20X20V and Cisco uBR-MC3GX60V line cards.
CSCud79411	When one Gigabit Ethernet interface is shutdown and no shutdown command used for interface range mode without configuring the begin interface range , the IF state of standby PRE is erroneous.
CSCud80873	When configuring the downstream modular-cable rf-channel command, the standby PRE crashes.
CSCud81164	With Cisco uBR-MC3GX60V line card configured as protect line card, when snmp (setccwbRFChannelModulation) is set on the protect line card, inconsistency issues are observed between working line card and protect line card.
CSCud83345	When the 4jacket-1 card is pre-configure without the physical jacket on the CMTS and PRE switchover is performed, the elements of entPhysicalEntry table for 4jacket-1 containers are not synchronised.

Bug ID	Description
CSCud83465	When the modem configuration file is changed and shut/no shut operation is performed on the Gigabit Ethernet port to allow the modems offline or online, status of some modems is displayed as w-online but the modems and the CPEs behind them cannot be pinged. The BPI key for these modems is not correct.
CSCud84792	When the free memory in the router is very low, the PRE crashes with the the exception vector 1500 error message.
CSCud85776	When there are several DOCSIS Set-top gateway (DSG) classifiers and channel grouping domains (CGDs) in one mac-domain, then adding more CGDs to the mac-domain leads to CPU Hog and traceback messages.
CSCud85809	When a SNMP polling script is used to poll SNMP objects with a large number of online cable modems, CPU Hog occurs with DTCC card and line card crash.
CSCud86014	The upstream scheduling for Unsolicited Grants (UGS) service flows (SFs) does not work correctly when the upstream channel bonding (USCB) feature is enabled in D-PON mode. The traffic flows only on one upstream channel with no packets flowing on the other channel.
CSCud86837	When default class is not configured in the policy map, the sum of class bandwidth configured in one policy map could exceed 100 percent and no alert message is displayed.
CSCud87301	If priority is configured first and then schedule type is configured, priority configuration is not valid and an error message is not displayed to show invalid configuration sequence.
CSCud89401	On Cisco uBR10012 router with Cisco uBR-MC3GX60V line card running Cisco IOS Release 12.2(33)SCF4, the Cisco uBR-MC3GX60V line card crashed and displayed the "SYS-2-INTSCHED 'idle' at level 1 -Process= "CMTS MAC Parser", ipl= 1, pid= 84" error message with tracebacks.
CSCud90921	Spacing between "Prim Sid" and "Online Status" columns in the output of the of show cable modem registered/unregister command.
CSCud91095	When a certain configuration sequence is used, the A and L bits are set wrongly in the router advertisement (RA) message sent out by CMTS bundle interface.
CSCud91942	When an invalid RF channel number is configured on a wideband SPA and Cisco uBR-MC3GX60V line card, the PRE crashes.
CSCud92352	When hostname styled DSG classifiers were configured successfully and there are many channels configured in DSG tunnel group, CPU Hog message on DSG process is displayed.

Resolved Caveats—Cisco IOS Release 12.2(33)SCG3

Bug ID	Description
CSCue44744	During the initial configuration of DEPI tunnels, the Cisco CMTS router experiences issues with establishing DEPI tunnels connections. The Cisco CMTS router may also stop responding when interfacing with RF Gateway-1 or other third-party EQAM devices.
CSCue53762	When packetcable is enabled, the following error message is displayed on the console and is logged in the system log: %UBR10000-4-PKTCBL_GATE_FAILURE: Packetcable gate failed This occurs when packetcable call is going to be deleted. This message is a false alarm. There is no actual error and no impact on services.

Open Caveats—Cisco IOS Release 12.2(33)SCG2

Bug ID	Description
CSCee18959	Core dump to server fails because extra information such as date/time is concatenated to the configured file name to be written to the server.
CSCti12590	Querying "getnext" with ipCidrRouteDest returns an OID that is not lexicographically larger than the queried OID.
CSCtk15093	When the CPEs, connected to DOCSIS 2.0 cable modems from two multicast VPNs and sharing a physical downstream forwarding interface, have joined same IGMP group with Multicast traffics, one CPE in one multicast VPN incorrectly receives traffic destined to a CPE in another multicast VPN.
CSCti66880	The show ip rsvp counters command does not display the port values.
CSCti72173	When there is are a high number of PPPoE sessions on the Cisco uBR10000 series universal broadband router, the LDP high availability process causes high CPU utilization on the secondary PRE. This forces the router to switchover.
CSCtk96446	When creating the OBFL file system for the first time and the uptime_exthist file is empty, there could be a temporary corruption in the flash device. This causes the OBFL Uptime application to stop functioning.
CSCti16221	When the show licenses command is used, it displays incorrect count of licenses.
CSCti22266	The DOCSIS general load balancing group information is lost from the mac domain cable modem service group after a PRE switchover occurs.
CSCtn96470	The carrier-to-noise ratio (CNR) accuracy varies on the Cisco uBR-MC3GX60V line card.
CSCty18719	While configuring ACLs from multiple CLI terminals at the same time, the CPU utilization is high and Cisco IOS crashes.

Bug ID	Description
CSCty99658	Packetcable bit is not set for PacketCable Multimedia (PCMM) multicast.
CSCtz23513	During system bootup, the message "%SCHEM-7-WATCH" and traceback is observed.
CSCtz29975	In a large scale performance environment, such as eight Cisco uBR-MC3GX60V line cards in (7 + 1) redundancy mode, 120 MAC Domains, and 1000 cable modems, the standby PRE crashes on PRE switchover.
CSCtz68573	When configurations of modular cable controller are deleted, the changes are not synchronized on the protect line card
CSCtz71368	On the Cisco uBR10012 running Cisco IOS Release 12.2(33)SCG, the output of the show hccp linecard subslot modem summary total command does not synchronize with the output of the show cable modem summary total command.
CSCtz80972	After moving the CM from IPv6 online/w-online to IPv4 online/w-online, a traceback occurs.
CSCua06500	When HCCP is unconfigured after a line card switchover, the error message "Bad refcount in datagram_done" is displayed with traceback.
CSCua11055	when HCCP is configured for the Cisco uBR-MC3GX60V line card, followed by a switchover and a revertback occurs, and the card is physically removed and replaced again,
CSCua11695	Spurious memory access when changing the RF channel frequency through SNMP.
CSCua12085	After a Cisco uBR-MC3GX60V line card switchover, the show interface cable command displays incorrect packets input counter after a Cisco uBR-MC3GX60V line card switchover.
CSCua12456	The values for ccwbrfChannelUtilization and docsIfCmtsChannelUtUtilization are calculated incorrectly.
CSCua13328	When a running-configuration that does not have HCCP configured is replaced with a running-configuration that has HCCP configured, error messages are displayed.
CSCua15263	%HCCP-3-CFG_FAIL error message with error code 1 is displayed and traceback is observed when a line card switches over after the wideband SPA is removed.
CSCua20383	The throughput is 8.9 Mpps in system when the traffic is sent from WAN to CPE .
CSCua25760	After a Cisco UBR-MC20X20 line card switchover, error and warning messages are displayed while configuring HCCP.
CSCua25855	When DMIC is enabled and the configuration file name is different for IPv4 and IPv6 policies, cable modem can get IPv4 and IPv6 addresses from the CNR, but fails to get the configuration file.
CSCua33517	When an IP address is not configured as the secondary address, configuration of dhcp-giaddr policy host and secondary addresses under bundle interface is not accepted by the Cisco CMTS. However, no warning message is displayed that the configuration was not accepted.

Bug ID	Description
CSCua34434	Although Alternative Provisioning Mode (APM) is configured as the IP provisioning mode, CM gets dual stack online.
CSCua35518	The cable modem name max-hosts command does not execute correctly.
CSCua36877	When cable modem registration throttling is enabled, cable modem throttling queue size is much larger than actual number of cable modems
CSCua38362	After performing line card and PRE switchover on the Cisco uBR-MC3GX60V line card, The show interface bundle command reports very high input and output rate, as well as high input and output counter values.
CSCua43769	When the same IP address is assigned to two different bundle interfaces, DHCP IP address assign mismatch error is displayed when the same IP address is assigned to two bundle interfaces.
CSCua45329	When Cisco CMTS is configured for IPv4 or IPv6 source-verify dhcp, Cisco CMTS is configured for DOCSIS 3.0 SAV for IPv4 or IPv6 and an upstream packet fails source-verify and to match the SAV subnet prefix, the Cisco CMTS does not issue DHCP Leasequery (LQ).
CSCua46000	When standby PRE fails during the bootup and the "%IDBINDEX_SYNC-4-RESERVE: Failed to lookup existing ifindex for an interface on the Standby, allocating a new ifindex from the Active" error message is observed on the active PRE.
CSCua48865	When the configured service class is removed via SNMP, service class removed via SNMP is removed only in the active PRE, and exists in the standby PRE.
CSCua49227	When multiple telnet sessions are open to operate fiber-node configuration, fiber node configuration error occurs when two telnet sessions are open.
CSCua57078	The standby PRE reloads when redundancy configuration is changed on the active PRE.
CSCua59985	The new active PRE parses an invalid command card x/x No Card license 72X60 after the PRE crash and switchover.
CSCua60092	When there is no SPA card in a slot but the card and no card commands are executed for this slot and then the standby PRE4 is loaded, tracebacks are observed on the standby PRE.
CSCua62457	When two CPEs with duplicate MAC address are online simultaneously, one clear cable host mac-address command can clear only one of these CPEs.
CSCua65785	When a working card switches over to standby mode, wideband configuration cannot be performed using CLI. However, wideband configuration can be performed using SNMP, which causes RF channel inconsistencies between the working and protect line card.
CSCua69999	%NICKEL10G-3-N10GERREVT error message is observed during PXF reload.
CSCua70281	The downstream traffic goes down after PRE switchover.

Bug ID	Description
CSCua70408	The deleted DOCSIS LBG appears in the show running and show cable load commands.
CSCua73564	When a Cisco uBR-MC3GX60 cable interface line card is added to Cisco uBR10012 router, a system log message (%LINEPROTO-X) is generated with a swidb_if_index_link_identity traceback.
CSCua74462	DBG resiliency count and time statistics information is lost after a line card switchover followed by a PRE switchover.
CSCua74782	Line card crashes due to FAUNA fatal error. However, the bits of "FAUNA_GBL_FATAL_INT" register are not set in the crashinfo file.
CSCua75101	DEPI sessions on the Cisco Wideband SPA go down after using shutdown and no shutdown commands for Cisco Wideband SPA.
CSCua75312	When MIB value is set via SNMP, the configuration is inconsistent between working and protect line cards.
CSCua75325	When configuring RF channel bandwidth for interface Wideband-Cable by SNMP operation, if the RF channel is from a different controller, then the RF channel is incorrectly configured on the standby PRE.
CSCua80124	Cable modem is not synchronized with the standby PRE.
CSCua84970	After the no card command is used to remove a line card from running-config, the modular-host subslot configuration for a Wideband SPA can still point to the removed line card.
CSCua88497	Traceback is observed after resetting the SPA card and executing the show controller modular command.
CSCua90051	Fiber node upstream and downstream is inconsistent when the line card is added to HCCP group.
CSCua90867	When the no downstream modular-cable rf-channel command is executed, the system crashes.
CSCua92314	Cable modem may access uninitialized memory address.
CSCua93169	When the IPv6 address is changed in the bundle, DHCPv6 relay source address is incorrect. The old source address still exists.
CSCua95263	MQoS session range with invalid source prefix IP mask defaults to null IP mask (0.0.0.0).
CSCua97690	Inconsistency in different configuration sequences with rate-adapt when upstream utilization optimization is configured locally first and then enabled globally.
CSCub00817	During PXF microcode reload or PRE switchover, the transient error message "%NICKEL10G-3-N10GERREVT: TBB - ERR EVENT MSOP, port 0" is observed.
CSCub04150	After using the hw-module subslot 1/0 shutdown command, saving and reloading the system, DTI card in slot 1/1 cannot bootup.
CSCub04599	On Cisco uBR10000 router, the SAV may not work for DOCSIS 3.0 CM.
CSCub04652	Invalid logging on standby PRE in RPR mode while performing auto-generate on the active PRE.
CSCub10176	When the DTCC card is moved from one slot to another, the MIBs do not change.

Bug ID	Description
CSCub10389	On a primary channel with narrowband modems, when wideband modem is online, those modems should select other channels as the primary channel.
CSCub14757	CM cannot come online when the fiber node contains two controllers RF channel with overlapping frequencies.
CSCub15514	After all the CMs are cleared from CMTS, CMs can still be seen in the pending list of DOCSIS 2.0 LBG.
CSCub17050	When the line card crashes, traceback and the error message "SYS-2-INSCHED" is observed when the line card crashes.
CSCub17736	When large number of CPEs are behind CM online, and test cable dcc command is executed for DCC initialization technique 1, CPUHOG and traceback are observed if DCC is performed when 250 CPEs are behind one modem.
CSCub23036	%SYS-2-MALLOCFAIL error message is observed on cable line cards.
CSCub25025	Cable monitor configuration is rejected for SPA WB interface.
CSCub25128	With a large fiber node and dual-stack configured, "Unexpected fragment sequence number. Got 2 and expected 1" error message is observed on the modem console. Modems cannot come online with IPv6 when the error message appears.
CSCub27638	When one modem is configured with more than two different classifiers and the microcode reload pxf command is executed, the DS traffic, except for the first and last classifier traffic on the modem, is dropped.'
CSCub27686	Assertion fails with spurious memory access when the show cable modem service-flow verbose command is executed.
CSCub28061	The following error message and traceback are observed: !"%HCCP-3-CFG_FAIL: Configuration failed. Parsing on Cable5/0/0 (error 1) -Process= "HCCP_LC_CTRL", ipl= 0, pid= 386"
CSCub30613	Error message "DSID_DUPLICATE" and traceback observed after doing LC switch over on Cisco uBR-MC20X20V line card
CSCub33063	The show controllers integrated-cable mapping rf-channel command output is unclear on Cisco BR7200 routers.
CSCub33605	When a cable modem is assigned a load balancing group ID (LBG ID), it fails to move into the designated load balancing group and the modem is not listed in the load balancing group modem list.
CSCub35871	The standby RP may show "%UBR10K_REDUNDANCY-4-RP_HA_STDBY_INCONSISTENT" messages on console, when the line card is reset.
CSCub37666	The CPE type remains static instead of DHCPv6.
CSCub41631	The output of show controllers integrated-cable mapping wb-channel is unclear for Cisco uBR7246 router.
CSCub41655	Inconsistent output of the show controller integrated-cable command.
CSCub42368	The outputs of the show cable l2-vpn xconnect dot1q-vc-map modem-mac verbose and show cable l2-vpn xconnect mpls-vc-map modem-mac verbose commands are the same for dot1q L2VPN service.

Bug ID	Description
CSCub43523	Switchover fails during the Cisco UBR-RFSW-ADV image upgrade.
CSCub44765	Cable modem cannot get all the IPv4 and IPv6 address via MIB cdxCmToCpeTable when more than 255 IPv6 and IPv4 addresses exist in hosts under one cable modem.
CSCub45028	The pending counter does not clear on channel shutdown.
CSCub47047	The shutdown and no shutdown of Cisco uBR-MC3GX60V GE (SFP) port causes insert OIR event in call home.
CSCub47647	When the protect line card is down and the line card switches over, the cable modem or CPE goes offline. However, the show ipv6 dhcp relay binding and show ipv6 route static commands still show the PD route.
CSCub52401	IPv6 spoof MAC detection is not available in IPv6 calling path.
CSCub53183	Two CISCO-ENTITY-FRU-CONTROL MIB errors are seen when the hw-module subslot subslot# reload command is used for any SPA on the UBR1000 platform.
CSCub54877	A dynamic bonding group (DBG) is not automatically shut after the RF impairment recovery.
CSCub54975	The error message "%C10K-3-LC_ERR" is observed during normal system bootup.
CSCub57967	One Cisco uBR-MC3GX60V line card works as the modular host line card of SPA and protect card at the same time.
CSCub59823	The value of docsIf3BondingGrpCfgChList using SNMP GET is null for cross controller.
CSCub64405	A wrong "IP MTU" configuration message appears in interface configuration when 10 Gigabit Ethernet SPA is configured with MTU and the 10 Gigabit Ethernet SPA interface is removed and added.
CSCub64465	The show pxf cpu mpls command displays incorrect VRF table IDs for MPLS labels.
CSCub64552	Configuration is not recovered after shutdown operation on Cisco UBR-MC20X20V line card.
CSCub65411	All routed packets are incorrectly counted in the show interface stats command on tunnel interface.
CSCub67370	IPv6 ACL cannot be applied to GRE tunnel interface through startup-config file after reboot.
CSCub69512	Error message and tracebacks are observed when configuring Q-in-Q backhaul sub-interfaces.
CSCub69658	The Cisco uBR10012 router creates a MAC address-based filter if TLV35 is configured in modem.config file. If some CPEs have multiple IPv4 addresses, the number of CPEs behind the modem could exceed limit set by TLV35. This violates DOCSIS 3.0 specification.
CSCub74764	If docsLoadBalGrpDefaultPolicy is configured with a non-existent policy ID, then the show running-config command displays the non-existent policy ID.

Bug ID	Description
CSCub76060	When the cable ds-resiliency command is used, the warning message "Wideband-Cable6/0/0:0 is set to WB resiliency bonding group. Remove all existing configurations" is displayed. However, only rf-channel and bundle configurations are removed. The admission-control or other configurations are not removed.
CSCub76172	Memory leakage occurs when the virtual bundle fails.
CSCub76413	When QoS is disabled on PRE5, the throughput is downgraded to 3.3Mpps for IPv4 MPLS VPN downstream traffic (WAN->CPE).
CSCub79220	Using the show idb comand, the link status of GigabitEthernet interfaces on standby PRE on Cisco uBR-MC3GX60V line card is hsown erroneously.
CSCub79278	When IPv6 address is added to rogue database DHCPv6 leasequery sending should be be disabled. However, DHCPv6 leasequery sending continues and traffic continues to be sent from the rogue IPv6 address.
CSCub79300	After repeatedly adding and removing trusted IPv6 addresses with the same IP address, mask, and ToS values, the "no" form of the service divert-rate-limit trusted-site-ipv6 command fails.
CSCub83514	When timeout parameters are configured using commands, the no form of the <i>activity-timeout</i> and <i>admission-timeout</i> arguments of the cable service class command fail.
CSCub83630	When an unsupported tunnel mode is configured, all Generic Routing Encapsulation (GRE) tunnel packets are lost.
CSCub83745	When CPEs join and leave mcast groups, the 'Failed to write BPI entry to Jib3DS 0" error is displayed.
CSCub88667	After a Dynamic Bonding Change (DBC) operation, the cable modem cannot be pinged.
CSCub88707	The Cisco CMTS router denies requests for giant IPC packets after a route processor switchover.
CSCub88833	Running the clear ip access-list dynamic counters command triggers spurious memory access and adds traceback information in the logging buffer of the Cisco uBR10012 router.
CSCub89046	CPE is added to wrong cable modem after leasequery.
CSCub89510	The Cisco CMTS router does not reject real-time polling service (RTPS) service flow with an invalid policy.
CSCub91406	The output of show pxf cable feature-table does not distinguish between DHCPv4 and DHCPv6 source verify inquiries when the source verification of the IPv6 packets is configured on the bundle interface.
CSCub92875	The IPv6 neighbor table is not recovered, and some cable modems cannot be pinged after the multicast downstream service identifier (DSID) forwarding capability is disabled on the Cisco CMTS router.
CSCuc00074	Duplicated DSID cable modem fail to synchronise on Cisco Shared Port Adapter (SPA) 520 series.
CSCuc03382	When bays 2 and 3 of Cisco uBR10012 router have Shared Port Adapter cards, and the show diag command is used to get the SPA card information, the show diag command fails.

Bug ID	Description
CSCuc05554	When Performance Routing Engine (PRE) high availability is activated on a bundle interface configured for IPv4 and IPv6 unicast and multicast traffic, Multicast Listener Discovery (MLD) on the bundle interface is disabled.
CSCuc10438	Upstream Bonding Group with ID greater than 65535 do not have any upstream channel members.
CSCuc11266	Error message "cmts_chk_any_spa_ds: p_info is NULL" is displayed for modems that register with the downstream channels on Cisco uBR-MC20X20V line card as primary downstream channels and bonding groups on remote Shared Port Adapter card as downstream bonding groups.
CSCuc12684	Ping DOCSIS test failed for modems showing status as online. Modem fails to drop offline after line card switchover/reverb performance.
CSCuc15140	The SNMP agent does not send any traps when cTap2StreamInterceptEnable is false and cTap2StreamStatus is changed from active to "nonService."
CSCuc15156	When cTap2StreamInterceptEnable is set to false, two debug entries are created (cTap2DebugEntry).
CSCuc18671	The Cisco 5-Port Gigabit Ethernet SPA does not forward downstream TLS dot1q Layer 2 VPN traffic.
CSCuc21450	The Cisco CMTS router allows you to set the submanagement default value to a filter group that does not exist.
CSCuc33742	An FPGA firmware issue might cause a line card crash.
CSCuc37333	JIB3 Register information that is usually collected by using show tech-support or any command used to collect debug information on controllers is missing for Cisco IOS Release 12.2(33)SCG.
CSCuc37650	Field-Programmable Device image upgrade failure while upgrading two or more Shared Port Adapter at the same time.
CSCuc38680	Information for narrow-band downstream channels is not updated when show controller down command is used.
CSCuc40752	When CPU or memory threshold and cable admission-control event cm-register are configured, show cable admission control global command displayed that the counter is increased when current value is higher than threshold. If only cable admission-control event dynamic service command is configured, the counter is not increased even when current value is higher than threshold.
CSCuc41201	On reload with a number of interfaces, if line card redundancy is configured in start-up, default service flow is not created on Wideband interface.
CSCuc43190	If you execute the all version of the clear cable modem commands when the number of modems are greater than 1000 and there are more than 10 classifiers per modem the %SYS-2-INTSCHED error message and traceback are displayed.

Bug ID	Description
CSCuc51823	The session on seventh channel drops into IDLE mode when the Cisco CMTS is configured with Cisco IOS Release 12.2(33)SCF4 and the frequency is shifted to 6 MHz.
CSCuc55282	Field-Programmable Device image upgrade using Trivial File Transfer Protocol (TFTP) failed for Shared Port Adapter (SPA) using the upgrade hw-module [slot slot-number] file file-url command.
CSCuc55351	After Dynamic Bonding Change (DBC), ping test to online cable modem failed.
CSCuc57679	For a Cisco uBR10012 router configured with more than five Cisco uBR-MC3GX60V line cards, the “%IDBINDEX_SYNC-4-RESERVE: Failed to lookup existing ifindex for an interface on the Standby, allocating a new ifindex from the Active” error message and traceback is displayed.
CSCuc57809	show cable load-balance docsis-group n target command displayed target although there were no load balancing action, after line card high availability activation.
CSCuc66994	Following the use of the show cable modem command, a cable line card (Cisco uBR-MC20X20V or Cisco uBR-MC3GX60V) crashed and %REQGRP-3-SYSCALL error message and traceback is displayed.
CSCuc69863	While configuring a protect tunnel in Downstream External PHY Interface (DEPI) tunnel configuration, configuration of a working tunnel as protect tunnel should be rejected.
CSCuc70582	After deleting a line card using the no form of card slot/subslot command, the no form of cable monitor interface command fails.
CSCuc71501	In the CMTS IOS downstream data forwarding path, if the CMTS subscriber database has a Customer-premises equipment (CPE), the CMTS does not issue a DHCPv6 leasequery which can recover all CPE data including adding the CPE to the Neighbor Discovery (ND) cache.
CSCuc72969	Cable filter group configuration lost on leasequery after CMTS reload or line card Online Insertion and Removal (OIR).
CSCuc75845	When cable clock dti command is configured or removed, UC Command 403 failure error is displayed.
CSCuc77773	When multiple SNMP traps are configured to one snmp-server host, some traps are lost.
CSCuc77926	Spurious memory access error message and traceback displayed on both active and standby Performance Router Engines (PREs).
CSCuc78831	The effect of plim input map ip precedence command configured on wide area network Shared Port Adapter (SPA) interface is not removed after plim input map ip dscp-based command configured.
CSCuc80671	When the show cr10k-rp wideband-cable queue command is used, the queues corresponding to the single SID specified in the command, are not displayed.
CSCuc82877	Route Processor console displays the “SPA TSM Error: PSM_GOT_INSERTED_WHEN_NOT_EXPECTED” error.

Bug ID	Description
CSCuc83205	The error message “Spurious access@cmts_hccp_process_inter_sid_instance_loc” is displayed when Hot Standby Connection to Connection Protocol (HCCP) is configured on Cisco uBR-MC3GX60V line card.
CSCuc84764	A DEPI tunnel that is configured as protect-tunnel for another tunnel, can be removed using the no depi-tunnel command, if no sessions are established using that DEPI tunnel. If any sessions are established using the DEPI tunnel then it cannot be removed and a warning message is displayed.
CSCuc87108	When a DEPI class name is configured with the maximum number of characters (80), the DEPI class name is saved. However, the name is displayed with only 79 characters when the show running-config command is used.
CSCuc87362	When c802tapStreamStatus is configured to 2 (nonService) from 1 (active), no trap or cTap2DebugEntry is generated for it. However, when c802tapStreamStatus is changed from nonService to Active, a trap and cTap2DebugEntry is generated. The cTap2DebugMessage displayed is "MAC Stream modification successful".
CSCuc88089	Memory leakage observed on HCCP_DATA_P2 process, when HCCP is configured on Cisco uBR-MC3GX60V line card.
CSCuc92143	The subinterface configured on DEPI interface is still displayed after the SPA card has been removed using the no card command.
CSCuc92908	When a protect tunnel is overwritten by another tunnel configuration, it cannot be configured again. To configure it again, the overwritten tunnel must be configured with the protect-tunnel command and then the no form of the protect-tunnel command must be used.
CSCuc92930	When the show interface command is used on the 1Gbps SPA card to display Flow Control, Flow Control is not displayed.
CSCuc99577	If the destination IP is used to configure a protect tunnel, belongs to a working tunnel, the show depi session command displays wrong information about the primary and secondary activity status.
CSCuc99918	When the show depi session endpoints command is executed, the result does not have any header line.
CSCud00216	When a cable bundle is configured with wrong cable bundle number and Request for Services (RFS) is configured, the cable bundle mismatch error is displayed. Then if the cable bundle is configured with the correct bundle number, “Bundle already exists on this interface” is displayed. This occurs on Cisco uBR10012 router with Cisco uBR-MC3GX60V line card.
CSCud00474	Peer QAM State remains in the Idle state during line card high availability recovery for the primary DEPI session, resulting in modems dropping offline for service groups DEPI session, resulting in modems dropping offline for service groups configured on the working Cisco uBR-MC3GX60V line card. This event is observed on hardware module subslot reset as well as line card OIR.

Bug ID	Description
CSCud05267	When Policy-map configuration on interfaces is reloaded, the configuration fails and the error message “%MCE-3-TCAM_FULL_NOMERGE: TCAM full, QoS Policy-map <policy-map name> could not be loaded” is displayed.
CSCud06317	Traceback error occurs when no card command is executed on Cisco uBR10012 router with wideband SPA.
CSCud06503	One vty is configured with a QOS rule using cable qos enforce-rule command and the rule is removed on second vty using no form of the command. When the Synchronous Transport Module (STM) is configured through the second vty, the PRE crashes.
CSCud06636	When two Telnet sessions running in cable fiber-node configuration mode and one Telnet mode exits from the configuration mode, the second Telnet session does not exit from the cable fiber-node configuration mode.
CSCud06765	When one vty session is in redundancy configuration mode and line card redundancy group is removed in another vty session, line card redundancy configuration on the first vty is unsuccessful.
CSCud06795	The PRE crashes after exiting from a non-existent pseudowire class.
CSCud07118	When one user is accessing a Broadband Aggregation group (BBA-Group), and another user removes the BBA-Group, the PRE crashes because the first user is still accessing the removed BBA-Group.
CSCud09868	When no forms of cable qos enforce-rule commands are used, the configuration develops errors.
CSCud11596	After LCSO reverts back to the primary line card, the cable upstream resiliency on-failure reset-modem command fails.
CSCud11616	During cable modem configuration, if the slot range is 5 to 8, the RF channel status is displayed as Integrated-cable rf-channel instead of modular-cable rf-channel, although the RF channel is configured as modular-cable rf-channel.
CSCud13370	During bootup, if the jacket cards are reset and PRE switches over before two line cards are online, the modems on both the line cards drop offline. This occurs when only DOCSIS Timing Interface (DTI) of a line card is not connected to DTI server and modems on all line cards use that line card as clock.
CSCud16147	When DTI status error (bug CSCud44570) occurs during Route Processor Redundancy mode switchover, and the jacket card is removed incorrectly, errors and tracebacks occur.
CSCud16252	Traceback error occurs when standby PRE5 is removed and modems are online via IPv4 and IPv6 with call-home configurations enabled.
CSCud17425	show cable rf-status command with integrated-cable option displays status of cable interface although there is no integrated cable interface on Cisco uBR10012 router.
CSCud17431	PRE resets in silent mode when parser error and traceback occurs and the “%SNMP-5-LINK_DOWN” and “%REDUNDANCY-3-STANDBY_LOST” errors are displayed:

Bug ID	Description
CSCud18726	show diag crashdump command is not supported in Cisco uBR10012 router.
CSCud19901	During DTCC OIR, Wrong TSS Phy error messages are displayed.
CSCud21149	When more than one sub-interface is configured in DEPI, removal of the interface with no card command fails. After SSO the standby PRE resets repeatedly due to bulk-sync failure.
CSCud22477	%PARSER-4-BADRANGELONGLONG error message is displayed when cable admission-control max-reserved-bandwidth command is used.
CSCud23971	If the secondary channel width (<i>last-choice-width</i> in cable upstream channel-width command) is greater than 1.6 MHz in the A-TDMA configuration, then the secondary channel width is not changed when the DOCSIS mode is changed from A-TDMA to SCDMA mode.
CSCud25251	MATCHED cmts_ipv6_match_prefix messages displayed for PRE5 running Version 12.2(122SC_20121115) should be hidden.
CSCud25721	When CMTS connects first to low-priority collector and then high-priority collector, the CMTS switches over. After the high-priority collector is disconnected, the CMTS switches over to the low-priority collector, but the IPDR data exporter fails.
CSCud25804	After PXF is reloaded, “%IPC-5-INVALID: Message Port index Dest Port” error message is displayed and the PRE5 crashes.
CSCud25827	After the PRE switches over, the jacket card resets and the “%PXF_NICKEL-3-IRONBUS_NOTRUNNING”, and “%IPC-2-INVALIDZONE: Invalid IPC Zone 0xF00000” error messages are displayed.
CSCud26231	When two different types of SPA cards are located on the same Spumoni, one type of SPA card is recognised as the other type of SPA card.
CSCud26404	The show interface counters command displays wrong packet counter information when 10 G EtherChannel port-channel sends high amount of traffic to the 10G SPA.
CSCud28665	When line card redundancy is configured and the line card is removed from the slot, no card inserted message is displayed and removal of redundancy configuration is not allowed. Support for removal of redundancy configuration after removal of line card is required.
CSCud30202	Cable modems do not come online after upgrading an image and reloading the PRE. The cable modems come online after completing shut/no shut operation on the interface and activation of line card high availability.
CSCud31088	The onboard failure logging (OBFL) uptime application fails due to a temporary corruption of flash drive and the uptime extend history file is empty, when the OBFL file system is created for the first time. The OBFL uptime application does not recover from this error.
CSCud32155	When the license revoke command is used, the license count does not reduce or change, on Cisco uBR10012 router with Cisco uBR-MC3GX60V line card running Cisco IOS Release 12.2(33)SCF4.

Bug ID	Description
CSCud32428	During feature interaction testing on PRE5 for Cross Controller Bonding, Dynamic Bonding Group Resiliency and Multicast on Pre5 features, while doing line card switchover, the "Error - STAT_SET non local ReMan 5/1 nui30" error occurred.
CSCud32588	When configuring output service policy on port-channel interface, the MQC queues are not created for port-channel interface. This behavior is seen on PRE5 10GE and SPA 10GE interfaces.
CSCud33825	During PRE reload after it has crashed, all the line cards fail to reboot and the poer LED indicators of the line cards remain OFF.
CSCud33959	After a successful dynamic bonding change (DBC) to Modena Receive Channel Configuration (RCC) by configuring a rcc-template, the traffic is lost because Modena does not support Baseline Privacy Interface(BPI) Advanced Encryption Standard (AES).
CSCud34360	PacketCable MultiMedia (PCMM) multicast session does not recover after a PRE switchover on a SPA wideband interface on Cisco uBR-MC3GX60V line card.
CSCud35507	While configuring multiple IA_PD/IA_NA addresses for CPE, the maximum number of IPv6 address configurable is 8.
CSCud37649	The show cable modem summary cable upstream command fails and shows the wrong prompt.
CSCud37833	When the NGSPA on slots 3/2 and 3/3 and the Jacket card is reset, the "obfl_process_dequeue" error and traceback occurs.
CSCud37959	When the start-up configuration runs, the no card command in the configuration fails in the active PRE. The no card command succeeds in the standby PRE.
CSCud39795	The shut command executed in the Modena IP interface fails and the physical link does not shut down.
CSCud40161	When line card switchover occurs, "cmts_dsg_adv_check_rule_validity" fails, displaying the "%SCHED-2-EDISMSCRIT" error and "HCCP_LC_DATA" traceback.
CSCud40550	When the 4jacket-1 card resets and is reloading, the SNMP requests fail, displaying traceback error.
CSCud40556	Cable modem status messages for static multicast downstream ID display the unicast downstream IDs in logs.
CSCud42262	If the SPA is used as downstream channel while the Cisco uBR-MC3GX60V line card switches over, traffic is interrupted for 10 seconds.
CSCud42325	After RPR switchover, irrespective of whether there is an NGSPA loaded on the router or not, the DOCSIS Timing, Communication and Control (DTCC) is not detected and DTI status is reported wrongly. The DTCC cannot be ecovered without the power cycle of the router chassis. (HUDSON?)
CSCud44283	With DOCSIS 3.0 and wideband modems connected to Cisco uBR10012 router, after a dynamic bonding change, the timing effect of modems increases to two times the normal timing effect.

Bug ID	Description
CSCud44570	In Route Processor Redundancy mode, during PRE switch over, DTCC is not detected and DOCSIS Timing Interface (DTI) displays wrong status.
CSCud44837	When there is no change in Management Console (MC) interface, but wideband interface channel has changed, valid wideband interface does not associate with mac-domain. Wideband interfaces are not displayed in rcc-list.
CSCud45121	When VPN Routing and Forwarding (VRF) is enabled, some cable modems on the VPN do not have correct Customer-premises Equipment (CPE) prefix and cannot be pinged.
CSCud45313	When load balancing group configuration is written on line card with protect downstream channels and the CMTS is reloaded, the protect member of the line card is removed.
CSCud45920	When the system is configured with logging console and logging console guaranteed commands, the log messages are not displayed in proper order on the console.
CSCud45934	When the number of channels in a MD-DS-SG is greater than 24, the wideband cable modems do not move to w-online state on certain primary interface.
CSCud46092	PRE4 on Cisco uBR10012 router running Cisco IOS Release 12.2(33) SCF3 crashes with the "%SYS-6-STACKLOW: Stack for process C10K card_oir_up_action_process running low, 0/6000" error message.
CSCud47331	When a logical upstream DOCSIS mode is configured as TDMA or TDMA/A-TDMA mixed mode and channel width is configured as 200000 Hz, Cisco uBR-MC20X20V line card crashes.
CSCud48789	When the CMTS sends an incomplete dynamic bonding change request (DBC-REQ), a modem responds with a dynamic bonding change response (DBC-RSP) to indicate the error to the CMTS. The CMTS resends the DBC-REQ but does not respond to the bandwidth request from the modem's transmit channel set (TCS).
CSCud50053	After cable modems are in w-online mode, when dynamic bonding change is executed using test cable dbc Mac-address sfid SFID Bonding-group-id command, the CMTS log indicates successful dynamic bonding change, but the show cable modem Mac-address service-flow command displays that the related FrwdIF change failed.
CSCud52134	If the modem is dual-stack, and comes online after the protect line card is ready, after line card switchover, both md_ds_sg_id and md_us_sg_id of modem are reset to zero.
CSCud52766	When the PRE switches from active PRE A to standby PRE B; line card switches from working line card to protect line card and the PRE switches back to PRE A with upstream traffic of more than 10M pps ipv6, a traceback observed
CSCud53156	PRE crashes with the "TCP-2-INVALIDTCB Invalid TCB pointer: 0x14A20804 -Process="IPDR_EXP_PROC", ipl= 0, pid= 89" error message and a traceback.

Bug ID	Description
CSCud53756	All the modems on a specific upstream channel drop offline and the Map Late Flush Count increases with "test cable bcm3142 errors 2" reports. Other upstream channels on the same line card are not affected.
CSCud54997	When a large number of modems come online simultaneously and undergo dynamic bonding change, the status of a number of modems is wrongly displayed as cloned.
CSCud55368	SNMP MIB ifXTable provides wrong values for BroadcastPkts value.
CSCud56136	When CPE with multiple IA_NA/IA_PD IPv6 addresses comes online and line card switches over, some or all the addresses are lost.
CSCud56903	When CMTS is reloaded, "Config Sync: Bulk-sync failure" error leads to standby PRE reset.
CSCud57765	When two different types of SPA cards are located on the same Spumoni, one type of SPA card is recognised as the other type of SPA card.
CSCud58359	After dynamic bonding change, the service-flow management selected the wideband interface with lower bandwidth instead of the wideband interface with higher bandwidth.
CSCud58757	When all MAC domain interfaces are put into the online insertion and removal (OIR) state, by using the hw-module stop command on the Cisco uBR-MC88V line cards, the DOCSIS Set-Top Gateway (DSG) configuration on cable interfaces is not restored.
CSCud59107	After line card is reset using hw_module reset command and PRE switchover, all the DEPI sessions fail and the "%C10KEVENTMGR-4-IRONBUS_FAULT" error message is displayed.
CSCud59604	After line card is reset using hw_module reset command and PRE switchover, all the DEPI sessions fail and the "%C10KEVENTMGR-4-IRONBUS_FAULT" error message is displayed.
CSCud60444	When the connection is unstable, though the outstanding queue is full, the IPDR exporter fails.
CSCud60449	When no ipdr template command when IPDR exporter running, the CMTS crashes.
CSCud60925	When CPU usage is high, and bi-direction traffic is sent, then "spurious memory access" error when do linecard switchover & revert.
CSCud61008	Configuring upstream channel for Load Balancing Group (LBG) in descending order fails without displaying an error message.
CSCud61083	After multiple line card switches over, the line card crashes due to memory shortfall.
CSCud64045	If cable ip-init command is configured on cable interface, then line card switched over, the configuration synchronises with the protect line card, but if docsIf3MdCfgIpProvMode is set through SNMP, the configuration does not synchronise with the protect line card causing inconsistency issues.
CSCud66762	After no dest-ip command is used and PRE switched over, the DEPI tunnel fails.

Bug ID	Description
CSCud76053	When the active PRE switches over to the standby PRE, the cable interface ifSpeed value changes.
CSCud76618	Under normal conditions, the fiber node information is not updated when the frequency for the upstream group is changed through spectrum management.
CSCud78232	When show cable modem resiliency status command is used wrongly, show cable modem summary wb-rfs command displays the same output for both modular-cable and integrated-cable options
CSCud78262	During normal operation, when a crash occurs or the hw-module command resets the protect line card no SNMP trap is sent.
CSCud78401	In the output of show cable modem , if the IP address of a modem is a long value, it extends to next column.
CSCud78797	When the show packetcable gate ipv6 summary command is used, wrong output for PacketCable gates associated with IPv6 subscriber IDs for DQOS, is displayed.
CSCud78839	When the fiber-node is configured and the show cable fiber-node association command is used, the narrow band channel ID is zero for Cisco uBR-MC20X20V and Cisco uBR-MC3GX60V line cards.
CSCud79411	When one Gigabit Ethernet interface is shutdown and no shutdown command used for interface range mode without configuring the begin interface range , the IF state of standby PRE is erroneous.
CSCud80873	When configuring the downstream modular-cable rf-channel command, the standby PRE crashes.
CSCud81164	With Cisco uBR-MC3GX60V line card configured as protect line card, when snmp (setccwbRFChannelModulation) is set on the protect line card, inconsistency issues are observed between working line card and protect line card.
CSCud83345	When the 4jacket-1 card is pre-configure without the physical jacket on the CMTS and PRE switchover is performed, the elements of entPhysicalEntry table for 4jacket-1 containers are not synchronised.
CSCud83465	When the modem configuration file is changed and shut/no shut operation is performed on the Gigabit Ethernet port to allow the modems offline or online, status of some modems is displayed as w-online but the modems and the CPEs behind them cannot be pinged. The BPI key for these modems is not correct.
CSCud84792	When the free memory in the router is very low, the PRE crashes with the the exception vector 1500 error message.
CSCud85776	When there are several DOCSIS Set-top gateway (DSG) classifiers and channel grouping domains (CGDs) in one mac-domain, then adding more CGDs to the mac-domain leads to CPU Hog and traceback messages.
CSCud85809	When a SNMP polling script is used to poll SNMP objects with a large number of online cable modems, CPU Hog occurs with DTCC card and line card crash.

Bug ID	Description
CSCud86014	The upstream scheduling for Unsolicited Grants (UGS) service flows (SFs) does not work correctly when the upstream channel bonding (USCB) feature is enabled in D-PON mode. The traffic flows only on one upstream channel with no packets flowing on the other channel.
CSCud86837	When default class is not configured in the policy map, the sum of class bandwidth configured in one policy map could exceed 100 percent and no alert message is displayed.
CSCud87301	If priority is configured first and then schedule type is configured, priority configuration is not valid and an error message is not displayed to show invalid configuration sequence.
CSCud89401	On Cisco uBR10012 router with Cisco uBR-MC3GX60V line card running Cisco IOS Release 12.2(33)SCF4, the Cisco uBR-MC3GX60V line card crashed and displayed the "SYS-2-INTSCHED 'idle' at level 1 -Process= "CMTS MAC Parser", ipl= 1, pid= 84" error message with tracebacks.
CSCud90921	Spacing between "Prim Sid" and "Online Status" columns in the output of the <code>show cable modem registered/unregister</code> command.
CSCud91095	When a certain configuration sequence is used, the A and L bits are set wrongly in the router advertisement (RA) message sent out by CMTS bundle interface.
CSCud91942	When an invalid RF channel number is configured on a wideband SPA and Cisco uBR-MC3GX60V line card, the PRE crashes.
CSCud92352	When hostname styled DSG classifiers were configured successfully, CPU Hog message on DSG process is displayed.
CSCue44744	During the initial configuration of DEPI tunnels, the Cisco CMTS router experiences issues with establishing DEPI tunnels connections. The Cisco CMTS router may also stop responding when interfacing with RF Gateway-1 or other third-party EQAM devices.
CSCue53762	When packetcable is enabled, the following error message is displayed on the console and is logged in the system log: %UBR10000-4-PKTCBL_GATE_FAILURE: Packetcable gate failed This occurs when packetcable call is going to be deleted. This message is a false alarm. There is no actual error and no impact on services.

Resolved Caveats—Cisco IOS Release 12.2(33)SCG2

Bug ID	Description
CSCtc87183	The Cisco uBR10012 router crashes with output chain element (OCE) adjacency errors.
CSCte47868	When DSG tunnels are re-assigned to different service classes, the line card switches over and reverts back, the service class configuration and DSG tunnel counters do not recover.
CSCtq09884	A Cisco uBR-MC5X20V line card crashes during voice calls.

Bug ID	Description
CSCtw56127	The Cisco interface line card crashed on the <code>cmts_flap_list_cm_add_event</code> process.
CSCua17657	When a modem is being registered and there is only one upstream channel in a UBG, then a UGS or UGS-ad is created on the UBG. This UGS/UGS-ad is not created on default UBG. When these service flows are deactivated, the Cisco uBR-MC3GX60V line card crashes.
CSCua38201	When one wideband is shut down, other widebands across the controller cannot forward traffic. After the traffic is suspended, the cable modems are not pingable.
CSCua40214	Although the GigE MAC address of a Cisco Wideband SPA is set manually, it still uses the default MAC address after reload.
CSCua51464	When only one UBR10-PWR-AC-PLUS is installed, the <code>show environment</code> command on Cisco CMTS displays incorrect power values.
CSCua59912	Cisco Wideband SPA card loses connection when online insertion and removal (OIR) is performed or the <code>issu loadversion</code> command is executed.
CSCua72300	Cable modem service flows (SFs) fail to move to an existing dynamic bonding group (DBG) after line card switchover.
CSCua72537	The standby PRE reloads when Resiliency Bonding Group (RBG) feature is enabled, and default DBG resiliency wideband interface is configured.
CSCua73151	Cisco uBR-MC3GX60V line card crashes due to the memory corruption on a Cisco uBR10012 router running Cisco IOS Release 12.2(33)SCE6.
CSCua80318	The link-address and source-address are deleted after switchover when DHCPv6 is used during PRE switchover.
CSCua89967	Bandwidth of a wideband interface is not released when the CCM is deleted or reset.
CSCua93181	When the MAC address of MD is changed, the MD configuration performed using the <code>interface cable</code> command is lost in <code>running-config</code> .
CSCua97751	SNMP cannot access the SFP containers and ports on the Cisco uBR-MC3GX60V line card.
CSCub00394	IP connectivity of CPE is lost after it is moved from one CM to another by changing VLAN ID.
CSCub07246	CPUHOG is observed when the saved configuration is copied to <code>running-config</code> .
CSCub12392	When the line card HA is ready and updates the LB group to replace the standby line card with an active line card, standby line card resets due to configuration synchronization error.
CSCub12690	Most MPLS deaggregation traffic is lost, approximately 4 kpps (68 byte frame length) traffic is received.
CSCub15941	CMTS crashes when the <code>show interface x multicast-sessions</code> command is executed.
CSCub20172	The no cable cm-status command on interface removes the other option.
CSCub25811	After SNMP setany and PRE switchover, the changed modulation-profile is set to default.

Bug ID	Description
CSCub26315	Modem and eMTA are not pingable from outside the CMTS. The ds_classif is zero in the output of the show cable modem x.x.x service-flow verbose command.
CSCub36209	The packet loss rate is up to 20% in Cisco SIP-600 priority queue for IP precedence on the 5-Port Gigabit Ethernet SPA.
CSCub39104	Active PRE4 crashes while changing the fiber node (FN) channel configuration.
CSCub42367	Wideband-cable interface is not available for generating RCC after executing the cable ds-resiliency and no cable ds-resiliency commands.
CSCub43248	DOCSIS 3.0 modem registers with the wrong number of RF channels in its RCS, which is not specified by TLV56, when TLV56 is configured.
CSCub43273	The CPU usage of hardware API background process is more than 50%.
CSCub43358	The codewords are not counted for ranging requests on Cisco uBR-MC3GX60V, Cisco uBR-MC20X20V, and Cisco uBR-MC88V line cards.
CSCub43952	After RF impairment, a cable modem goes offline and restarts the w-online process.
CSCub44885	The L2TPv3 tunnel does not come up on the Cisco CMTS. Error messages are displayed.
CSCub45231	IPv6 ACL with UDP Routing Information Protocol (RIP) field does not work.
CSCub57143	The second BG cannot be selected after line card switchover.
CSCub57956	Memory leak is observed on Cisco uBR10012 router when PRE switches over in RPR redundancy mode.
CSCub58043	Traceback is observed when the line card is reset and PRE switches over.
CSCub60220	The show logging onboard temperature/voltage summary command does not display any output when Onboard Failure Logging (OBFL) is configured.
CSCub60406	The docsIf3CmtsSpectrumAnalysisMeasTable MIB object always keeps spectrum record after the spectrum group is configured in the MAC domain till the Cisco CMTS is reloaded.
CSCub62559	IPv6 packet is dropped by failed RPF in PXF. However, when the no service pxf command is executed, the IPv6 packets are forwarded by RP.
CSCub62865	During the process of switching of upstream bonding groups, traceback occurs.
CSCub62885	After DBC changes the transmit channel set (TCS) of the modem to upstream channel set, the partial mode information is not erased.
CSCub64722	LBG assignment cannot be performed for DOCSIS 3.0 CM after PRE switchover and modular-cable interface is configured with dynamic DEPI session.
CSCub64990	The standby PRE crashes after the modem configuration file that includes multicast static TLV is changed and line card switches over.

Bug ID	Description
CSCub69510	If DBC is enabled and DBC receive channel configuration (RCC) is performed, when DS service flow information of CM exceeds the maximum TLV buffer, the line card crashes.
CSCub69523	After the Cisco RFGW 10 (directly connected to the Cisco CMTS) is reloaded or redundancy switchover is processed, the Gigabit Ethernet interfaces on the Cisco Wideband SPA cannot be pinged and used to establish DEPI tunnels even if their status is up.
CSCub70877	When the same IPv6 address is configured on different subbundle interfaces with VRF, CPE gets IPv6 online under mismatched subbundle interface with VPN routing and forwarding (VRF) configured. Cable modems are not affected but CPE IPv6 neighbor is moved to incorrect subbundle interface.
CSCub70942	Spurious memory access error is observed.
CSCub71477	The primary wideband and FrwdIF interfaces of a cable modem are different after dynamic bonding group (DBG) and dynamic bonding change (DBC) operations.
CSCub73510	The show depi session command output does not display Downstream External PHY Interface (DEPI) sessions after a route processor switchover.
CSCub76665	After the global SFAC threshold is changed when the protect card is active, global AC threshold does not synchronize from active protect card to standby working card.
CSCub78418	Traffic breaks when any of the following commands are executed at a tunnel interface: no ipv6 enable and no ipv4 address.
CSCub78736	A wrong downstream channel mapping occurs in the general load balancing group (GLBG) configuration.
CSCub81383	Error messages and traceback is seen when ipv6 dhcp relay destination command is configured.
CSCub81852	Spurious memory access seen with high CPU utilization when cable upstream power-level command is configured on the Cisco CMTS.
CSCub83278	The Supervisor card switchover may cause the Cisco CMTS line card switchover with the following error message on the Cisco CMTS console: "%HCCP-5-LC_ACTIVE: HCCP card 5/1 Mbr 61 Protect: change state to active due to: APP Switch."
CSCub83421	When all RF channels of the interface are removed and no RF channels are assigned to the interface, the bandwidth of a wideband interface is not 0.
CSCub83502	For a wideband online cable modem, the multicast service ID of a cable modem is changed with multiple line card switchovers and IGMP leave and join requests
CSCub83806	When using the debug cable range and debug cable mac-address commands, the Cisco CMTS router receives "no ranging requests" messages from a polled cable modem MAC address.
CSCub84330	After a route processor switchover, an error observed when a port channel ID is configured with the maximum number.
CSCub84409	A Toaster XRAM parity error is observed with the refresh period register.

Bug ID	Description
CSCub86243	The 128 bit encryption multicast traffic stops after multiple line card switchovers.
CSCub86266	When BPI for multicast is configured, a Cisco CMTS router assigns a wrong TEK lifetime value to cable modems when the modems join a multicast group.
CSCub88736	When background synchronization is enabled, configuration of the ToS overwrite of the cable service class changes the downstream service flow attribute.
CSCub90361	When IPv6 is enabled on a bundle with at least two relay agents and Dynamic Message Integrity Check (DMIC) is activated, multiple Global Unicast Address (GUA) are assigned.
CSCub91122	When the 5x1G SPA card is removed, and dot1q NSI configuration is removed, the standbyPRE fails to boot.
CSCub92892	IPv6-enabled DOCSIS2.0 compliant modems in multicast DSID forwarding (MDF) explicit mode are not reachable.
CSCub95534	With process stack overflow, the standby route processor might crash if you use the docsIfDownChannelFrequency MIB object to set RF channel frequency.
CSCub97744	When a cable modem is connected to more than 5 CPEs, the Subscriber Account Management Interface Specification (SAMIS) metering format cannot contain more than five CPE addresses.
CSCub97931	When you repeatedly add or remove the multicast QoS groups and static groups, the show interface cable qos paramset command displays incorrect service flow statistics for a multicast service class.
CSCub98376	Incorrect "Total downtime" is displayed in the show logging onboard uptime command output.
CSCub99054	ACFE error message and traceback observed when you copy a configuration with Fairness Across DOCSIS Interfaces enabled to the running configuration.
CSCuc00886	When the cable primary-sflow-qos11 keep all command is used. The incorrect counter values are displayed for the modems that fail to register successfully, or are stuck at either init(o) or init(r2) states. If the modem registers successfully at a later point, the corresponding counter values are displayed correctly, cable modems with incorrect IPDR counters are observed.
CSCuc03080	When a cable modem has multiple RSVPs, the cable modem count and flow count do not match in the show cable rsvp flow-db command output.
CSCuc09628	If get-info is executed before removing the call, the PCMM call bandwidth is not released after removing the PCMM gate.
CSCuc14448	When the IPv6 lease query is sent to CNR and back to the router, the IPv6 lease query reply message from Cisco Network Registrar is not seen on the Cisco CMTS router due to an incorrect User Datagram Protocol (UDP) source port.

Bug ID	Description
CSCuc18596	When the same DOCSIS downstream channel ID (DCID) is configured on different fiber nodes, the error message "%UBR10000-6-MD_DS_SG_DCID_CONFLICT: Downstream channel IDs conflict in mac-domain of Cable6/0/0" is displayed.
CSCuc21275	When wideband or RF bandwidth is configured through ccwbWBtoRFBandwidth, remaining-ratio resets.
CSCuc22394	Spurious memory access observed when using the Cisco uBR10-MC5X20H line card.
CSCuc27433	After reloading the Cisco uBR10012 router, the Call Home configuration may cause spurious memory access on the Cisco CMTS router.
CSCuc29648	When there is no IPv6 downstream classifier in the CM configuration file, and no ACL or QoS packet filter is configured, the power boost functionality does not work with IPv6 cable modems.
CSCuc37317	A NULL pointer access might cause a "%ALIGN-3-SPURIOUS: Spurious memory access made at 0x2458B50 reading 0x18" memory error.
CSCuc38079	When dynamic bonding change (DBC) is used to change the transmit channel set (TCS) bitmap, the debug message displays incorrect values of UBG and service flow maps.
CSCuc42574	The PCMM gate for Multicast traffic cannot be successfully set from a PCMM Server when "DOCSIS-Specific Parameterization" is used as the traffic profile option.
CSCuc43175	Unexpected leasequery is sent when NA glean is configured but not performed on a configured PD-route.
CSCuc44367	The "instance range" command works only for the first index in a given range.
CSCuc44405	When compact flash memory card is being accessed, on PRE4 "%ATA-6-ATA_STATUS_TIMEOUT" traceback and CPU Hog occurs.
CSCuc50985	When cable trust is configured on cisco uBR10012 router with PRE4, Cisco uBR-MC20X20V and Cisco uBR-MC3GX60V linecards, running Cisco IOS Release 12.2(33)SCF3, a static IPv6 CPE running Windows 7 is not permitted.
CSCuc59288	When Common Open Policy Service (COPS) is heavily loaded, PCMM gate fails.
CSCuc60888	On a Cisco uBR10012 router running Cisco IOS Release 12.2(33)SCE2, high CPU utilization occurs and COPS accounts for 70-75% utilization for a long period of time.
CSCuc61997	When AC "Config Sync: Bulk-sync" failure occurs the standby PRE resets.
CSCuc65123	When a cable modem moves a downstream bonding group to narrow band, the CIR rate is not recovered although the narrow band primary interface has sufficient CIR bandwidth.
CSCuc69898	When cable ipv6 source-verify and no cable commands are not configured, a CPE behind a Cisco uBR10012 router is not recovered by LQv6.

Bug ID	Description
CSCuc75535	When license is transferred between two Cisco uBR-MC3GX60V line cards on the same Cisco uBR10012 router, the transfer fails due to wrong DST port on TFTP data packet from Cloud Lifecycle Manager (CLM).
CSCuc77844	When a REG-REQ message is divided into several fragments and a 16x16 SF cable modem attempts to come online, the line card crashes continuously without any operation.
CSCuc79228	PRE hangs or crashes and is unable to be accessed via telnet or console
CSCuc87301	When IPv6 is not enabled on an interface bundle and a static IPv6 route is created for the bundle, the static IPv6 route created is incorrect.
CSCuc95283	When the MAC address of MAC domain is changed, the MAC domain configuration performed using the interface cable command is lost. This issue also occurs when the MAC address of MAC domain is changed.
CSCuc99944	When two wideband interfaces are configured on the same controller and a dynamic bonding change is made with RF channels configured on bonding groups across controllers on Cisco uBR-MC3GX60V line card and NGSPA, the cable modems on the SPA display "wb-online" status, but does not respond to pings.
CSCud00377	After dynamic bonding change moves a modem to a different wideband interface, the modem does not respond to pings.
CSCud01980	After changing upstream channel width from 1.6MHz to 3.2MHz, then configuring the admission control and PRE high availability activated, the "%ERROR: Standby doesn't support" error occurs.
CSCud04316	The Cisco uBR-MC3GX60V line card crashes and fails to boot up and the "%SYS-2-MALLOCFAIL: Memory allocation of 1708 bytes failed..." error occurs.
CSCud04690	when a cable tag is configured on a telnet session, this cable tag is deleted from another telnet session and the cable tag name is configured in the first telnet session, the Cisco CMTS crashes.
CSCud04948	After PRE switch over, SFP information on Cisco uBR-MC3GX60V line card is not available in the output of show inventory or show SNMP command.
CSCud06696	When multiple channels share a port on integrated-cable (IC) interfaces, the frequency of the first channel is configured, and the frequency gap between the first and the second channel is smaller than the bandwidth (6 MHz or 8 MHz), the status of the fibre node (FN) to be invalid.
CSCud07516	Behind a cable modem, when one CPE with IPv4 and IPv6 addresses is disconnected and another CPE is connected, the same IPv4 and a different IPv6 addresses are assigned to the new CPE. The output of show cable modem cpe command shows that both the CPEs are connected, while the output of show arp command shows only the connected CPE.
CSCud08693	When an SNMP probe is used to check SPA port type, the MIB content displays that the SPA port type is the same as the bay type. The message displayed is "80: entPhysicalVendorType.3278 (AutonomousType) cevContainerSFP 81: entPhysicalVendorType.3288 (AutonomousType) cevContainerSF".

Bug ID	Description
CSCud16363	Standby PRE would reset by itself with sync error log message on Cisco router running Cisco IOS Release 12.2(33)SCF2. Standby PRE would stay in 'standby COLD' on Cisco router running Cisco IOS Release 12.2(33)SCD8. This occurs on Cisco uBR-MC20X20V, after configuring upstream frequency as 60MHz.
CSCud20059	The SNMP set method to change channel list of the wideband interface, fails on the wideband interface is configured with cross controller.
CSCud23499	When the number of upstream max-ports of the MAC domain are equal to or more than than default number, the upstream bonding groups above 65535 do not have any upstream channels.
CSCud23882	When the traffic is high, the Toasters are congested and packets are counted as input errors by counters on the interface cable.
CSCud25800	When HCCP is not configured, the status of the wideband interface, modular cable interface is down and the modems offline, while if HCCP is configured, the status of the wideband interface, modular cable interface is down and the modems are online or w-online.
CSCud25884	After several line card switchovers, a CPU Hog occurs and the line card crashes.
CSCud26521	When dot1q TLS map is configured SPA card without configuring l2vpn default NSI port and SPA card is removed, the standby PRE is reloaded.
CSCud28273	When configuration is changed before line card boots up, the CMTS crashes.
CSCud28400	When Cisco router is used as a CPE, Duplicate Address Detection (DAD) fails and IPv6 address is not assigned by DHCPv6 server.
CSCud47000	When BPI is enabled, if CMTS uses DBC to move a cable modem, a large fragment of DBC_REQ message is dropped by the JIB processor. When the modem does not receive a complete DBC_REQ, the DBC fails and modem is reset.

Open Caveats—Cisco IOS Release 12.2(33)SCG1

Bug ID	Description
CSCtc62096	Dynamic multicast service flow and reserved bandwidth exist even after the removal of the multicast QoS (MQoS) configuration from the second bonding group.
CSCtg02818	Memory leak is seen after running PacketCable Multimedia (PCMM) calls for more than 12 hours.
CSCti12590	Querying "getnext" with ipCidrRouteDest returns an OID that is not lexicographically larger than the queried OID.
CSCti28695	The ipv6ScopeZoneIndexTable shows null interface.
CSCti66880	The show ip rsvp counters command does not display the port values.
CSCtk15093	CPE, in one multicast VPN, incorrectly receives traffic destined to a CPE in another multicast VPN.

Bug ID	Description
CSCt122266	The DOCSIS general load balancing group information is lost from the mac domain cable modem service group after a PRE switchover occurs.
CSCtn96470	The carrier-to-noise ratio (CNR) accuracy varies on the Cisco uBR-MC3GX60V line card.
CSCts20435	CPE schema record contains IPv6 link-local address (LLA) address of the CPE.
CSCtw56127	The Cisco interface line card crashed on the <code>cmts_flap_list_cm_add_event</code> process.
CSCtw66769	The Cisco uBR-MC3GX60V line card IPC timeout causes a line card switchover or a line card reload.
CSCtx37531	The Cisco uBR-MC3GX60V line card logs a message (<code>%BCM3142-3-READ_ERR_SEQ</code>) and stops passing traffic.
CSCty18719	Cisco IOS may crash while configuring ACLs from multiple CLI terminals at the same time.
CSCty65044	Incorrect delta on <code>ServiceOctetsPassed</code> counters on a Cisco uBR10012 router running Cisco IOS Release 12.2(33)SCE4 with IPDR exporter in progress.
CSCty99658	Packetcable bit is not set for PacketCable Multimedia (PCMM) multicast.
CSCtz02213	The show run command output has empty <code>init-tech-list</code> . Also, invalid range such as <code>100-0</code> is accepted by the <code>init-tech-list</code> .
CSCtz14627	After GigEthernet port is shut down, DEPI sessions are not removed when DEPI is configured in DEPI control plane mode.
CSCtz17459	A single-event upset (SEU) error puts Cisco uBR-MC3GX60V and Cisco uBR-MC20X20 line cards running the Cisco IOS Releases 12.2(33)SCE or 12.2(33)SCF into a corrupted state where the card cannot gracefully recover.
CSCtz23513	During system bootup, the message <code>"%SCHED-7-WATCH"</code> and traceback is observed.
CSCtz29975	The standby PRE crashes on PRE switchover.
CSCtz42496	Packet loss is observed on the upstream ports on the Cisco uBR10012 router running Cisco IOS Release 12.2(33)SCF2 having Cisco UBR-MC20X20V line card and Cisco uBR-MC3GX60V line card. This issue is observed during ixia testing with packets smaller than 200 bytes.
CSCtz68573	Deleted controller modular-cable configurations are not synchronized on the protect line card.
CSCtz71368	The output of the show hccp linecard subslot modem summary total command is not synchronized with the show cable modem summary total command.
CSCtz80972	Traceback occurs after moving the cable modem from IPv6 online/w-online to IPv4 online/w-online.
CSCtz99874	The Cisco CMTS does not initiate an N+1 failover when the Gigabit Ethernet link is down.
CSCua05976	SPA channels remain up even when the modular-host is down. CMs on SPA are pingable.
CSCua06500	Error message <code>"Bad refcount in datagram_done"</code> is displayed with traceback.

Bug ID	Description
CSCua11055	Error messages are displayed to indicate duplicate SNMP registration after the protect line card comes up.
CSCua11695	Spurious memory access when changing the RF channel frequency through SNMP.
CSCua12085	The show interface cable command displays incorrect packets input counter after a Cisco uBR-MC3GX60V line card switchover.
CSCua12456	The values for ccwbRFChannelUtilization and docsIfCmtsChannelUtUtilization are calculated incorrectly.
CSCua13328	Error messages are displayed when one running-configuration is replaced with another running-configuration.
CSCua15263	“%HCCP-3-CFG_FAIL” error message with error code 1 is displayed and traceback is observed when a line card switches over after the wideband SPA is removed.
CSCua20383	The throughput is 8.9 Mpps in system when the traffic is sent from WAN to CPE.
CSCua22652	When a configuration file that does not include HCCP is used to replace the running-config file that includes HCCP, traceback and error messages are observed.
CSCua25760	After a Cisco UBR-MC20X20 line card switchover, error and warning messages are displayed while configuring HCCP.
CSCua25855	Cable modem can get IPv4 and IPv6 addresses from the CNR, but fails to get the configuration file.
CSCua33517	Configuration of dhcp-giaddr policy host and secondary addresses under bundle interface is not accepted by the Cisco CMTS. However, no warning message is displayed that the configuration was not accepted.
CSCua34434	Although Alternative Provisioning Mode (APM) is configured as the IP provisioning mode, cable modem gets dual stack online.
CSCua35518	The cable modem name <domain-name
CSCua36877	The cable modem throttling queue size is much larger than actual number of cable modems.
CSCua37298	Cable modems configured for the upstream channel bonding (USCB) bond to an incorrect bonding group and display incorrect transmit channel set (TCS).
CSCua38201	When one wideband is shut down, other wideband channels across the controller cannot forward traffic. After the traffic is suspended, the cable modems are not pingable.
CSCua38362	The show interface bundle command reports very high input and output rate, as well as high input and output counter values.
CSCua40214	Although the GigE MAC address of a Cisco Wideband SPA is set manually, it still uses the default MAC address after reload.
CSCua40825	IPC communication issues occur. Messages similar to the following can be seen in logs: <ul style="list-style-type: none"> • SLOT 6/1: Jun 4 10:13:23.764: CR10K_CLNT-3-IPCTXERR IPC send • Failure: client=0 entity=1 ses=6/0 msg=22 err=timeout

Bug ID	Description
CSCua43769	When the same IP address is configured for two bundle interfaces, the DHCP IP mismatch error is seen and some modems cannot come online.
CSCua45329	The Cisco CMTS does not issue DHCP Leasequery (LQ).
CSCua46000	Spurious memory access is observed on the standby route processor during bootup.
CSCua48865	The service class removed via SNMP is removed only in the active PRE, and exists in the standby PRE.
CSCua49227	When multiple telnet sessions are opened with different fiber node IDs, upstream configuration on the fiber node does not work properly.
CSCua51310	Spurious memory access is observed on standby PRE when the show cable multicast statistics command is executed.
CSCua51464	When only one UBR10-PWR-AC-PLUS is installed, the show environment command on Cisco CMTS displays incorrect power values.
CSCua56491	The SNMP information "ciscoFlashDeviceEntry" exists even after the USB storage is removed.
CSCua57078	The standby PRE reloads when redundancy configuration is changed on the active PRE.
CSCua59912	Cisco Wideband SPA card loses connection when online insertion and removal (OIR) is performed or the issue loadversion command is executed.
CSCua59985	The new active route processor parses an invalid command after the route processor crash and switchover.
CSCua60092	Traceback is observed on the standby route processor after the card and no card commands are executed for the SPA card when there is no SPA card in the slot.
CSCua62457	When two CPEs with a duplicate MAC address are online simultaneously, the clear cable host mac-address command can clear only one of these CPEs.
CSCua65785	When a working card switches over to standby mode, WB configuration cannot be performed using CLI. However, WB configuration can be performed using SNMP, which causes RF channel inconsistencies between the working and protect line card.
CSCua68317	The standby PRE crashes when the CPE IP address overlaps the CM IP address.
CSCua69999	%NICKEL10G-3-N10GERREVT error message is observed during PXF reload.
CSCua70281	The DS traffic goes down after PRE switchover.
CSCua70408	The deleted DOCSIS LBG appears in the show running and show cable load commands.
CSCua72300	Cable modem service flows (SFs) fail to move to an existing dynamic bonding group (DBG) after line card switchover.
CSCua72537	The standby PRE reloads when Resiliency Bonding Group (RBG) feature is enabled, and default DBG resiliency wideband interface is configured.
CSCua72652	Line card crashes when TLV-based static multicast is configured in CM configuration file.
CSCua73151	The Cisco uBR-MC3GX60V line card crashes due to memory corruption.

Bug ID	Description
CSCua74462	DBG resiliency count and time statistics information is lost after a line card switchover followed by a PRE switchover.
CSCua74782	Line card crashes due to FAUNA fatal error. However, the bits of "FAUNA_GBL_FATAL_INT" register are not set in the crashinfo file.
CSCua75101	DEPI sessions on the Cisco Wideband SPA go down after using shutdown and no shutdown commands for Cisco Wideband SPA.
CSCua75312	When MIB value is set via SNMP, the configuration is inconsistent between working and protect line cards.
CSCua75325	When configuring RF channel bandwidth for interface Wideband-Cable by SNMP operation, if the RF channel is from a different controller, then the RF channel is incorrectly configured on the standby PRE.
CSCua75599	Cable modems on Cisco Wideband SPA go offline with multicast traffic.
CSCua80124	Cable modem is not synchronized with the standby PRE.
CSCua80318	The link-address and source-address are deleted after switchover when DHCPv6 is used during PRE switchover.
CSCua84970	After the no card command is used to remove a line card from running-config, the modular-host subslot configuration for a Wideband SPA can still point to the removed line card.
CSCua88497	Traceback is observed after resetting the SPA card and executing the show controller modular command.
CSCua89967	Bandwidth of a wideband interface is not released when the CCM is deleted or reset.
CSCua90051	Fiber node US and DS is inconsistent when the line card is added to HCCP group.
CSCua90867	When the no downstream modular-cable rf-channel command is executed, the system crashes.
CSCua91146	The following error message is observed while performing ISSU: "RLC_ISSU_PROCESS-3-RLC_ISSU_N1_PLC_WPLC_ERR: runversion error, primary LC 6/0 not standby ready."
CSCua92314	Cable modem may access uninitialized memory address.
CSCua93169	When the IPv6 address is changed in the bundle, DHCPv6 relay source address is incorrect. The old source address still exists.
CSCua93181	When the MAC address of MD is changed, the MD configuration performed using the interface cable command is lost in running-config.
CSCua95263	MQoS session range with invalid source prefix IP mask defaults to null IP mask (0.0.0.0).
CSCua97690	Inconsistency in different configuration sequences with rate-adapt when upstream utilization optimization is configured locally first and then enabled globally.
CSCua97751	SNMP cannot access the SFP containers and ports on the Cisco uBR-MC3GX60V line card.
CSCub01426	The value of "cRFStatusManualSwactInhibit" and the output of the show redundancy state command for "Manual Swact" are incorrect.

Bug ID	Description
CSCub04150	After using the hw-module subslot shutdown command, saving and reloading the system, DTI card in slot 1/1 cannot boot up.
CSCub04599	On Cisco uBR10000 router, the SAV may not work for DOCSIS 3.0 CM.
CSCub04652	Invalid logging on standby PRE in RPR mode while performing auto-generate on the active PRE.
CSCub07246	CPUHOG is observed when the saved configuration is copied to running-config.
CSCub09988	Modems are offline alternately after sending DS traffic to a single Cisco uBR-MC3GX60V line card.
CSCub10176	When the DTCC card is moved from one slot to another, the MIBs do not change.
CSCub10389	On a primary channel with narrowband modems, when wideband modem is online, those modems should select other channels as the primary channel.
CSCub12392	When the line card HA is ready and updates the LB group to replace the standby line card with an active line card, standby line card resets due to configuration synchronization error.
CSCub12565	PRE crash and error message are observed when line card switches over with active multicast session.
CSCub12690	Most MPLS deaggregation traffic is lost, approximately 4 kpps (68 byte frame length) traffic is received.
CSCub14757	CM cannot come online when the fiber node contains two controllers RF channel with overlapping frequencies.
CSCub15514	After all the CMs are cleared from CMTS, CMs can still be seen in the pending list of DOCSIS 2.0 LBG.
CSCub15941	CMTS crashes when the show interface multicast-sessions command is executed.
CSCub15996	After the DHCPv6 CPE is recovered by the CMTS, DUID of the CPE is zero.
CSCub15999	DSG multicast traffic is forwarded on the default service flow instead of non-default service flow.
CSCub17050	Traceback and the error message SYS-2-INSCHED is observed when the line card crashes.
CSCub17736	CPUHOG and traceback are observed if DCC is performed when 250 CPEs are behind one modem.
CSCub20172	The no cable cm-status command on interface removes the other option.
CSCub23036	%SYS-2-MALLOCFAIL error message is observed on cable line cards.
CSCub25025	Cable monitor configuration is rejected for SPA WB interface.
CSCub25128	With a large fiber node and dual-stack configured, "Unexpected fragment sequence number. Got 2 and expected 1" error message is observed on the modem console. Modems cannot come online with IPv6 when the error message appears.
CSCub25281	The show cable modem phy output is not cleared when the remote-query is enabled while the timer does not reach the interval.

Bug ID	Description
CSCub25811	After SNMP setany and PRE switchover, the changed modulation-profile is set to default.
CSCub26315	Modem and eMTA are not pingable from outside the CMTS. The ds_classif is zero in the output of the show cable modem service-flow verbose command.
CSCub27638	When one modem is configured with more than two different classifiers and the microcode reload pxf command is executed, the DS traffic, except for the first and last classifiertrafficonthemodem, is dropped.'
CSCub27686	Assertion fails with spurious memory access when the show cable modem service-flow verbose command is executed.
CSCub28061	The following error message and traceback are observed: "%HCCP-3-CFG_FAIL: Configuration failed. Parsing on Cable5/0/0 (error 1) -Process= "HCCP_LC_CTRL", ipl= 0, pid= 386"
CSCub33063	The show controllers integrated-cable mapping rf-channel command output is unclear on the Cisco CMTS router.
CSCub35871	The standby RP may show "%UBR10K_REDUNDANCY-4-RP_HA_STDBY_INCONSISTENT" messages on console, when the line card is reset.
CSCub36209	The packet loss rate is up to 20% in Cisco SIP-600 priority queue for IP precedence on the 5-Port Gigabit Ethernet SPA.
CSCub37666	The CPE type remains static instead of DHCPv6.
CSCub38032	The show cable host access-group command does not show IPv6 host.
CSCub39104	Active PRE4 crashes while changing the fiber node (FN) channel configuration.
CSCub41631	The output of show controllers integrated-cable mapping wb-channel is unclear.
CSCub41655	Inconsistent output of the show controller integrated-cable command.
CSCub42367	The wideband cable interface is not available for generating RCC after executing the cable ds-resiliency and no cable ds-resiliency commands.
CSCub42368	The outputs of the show cable l2-vpn xconnect dot1q-vc-map mac-address verbose and show cable l2-vpn xconnect mpls-vc-map mac-address verbose commands are the same for dot1q L2VPN service.
CSCub43248	DOCSIS 3.0 modem registers with the wrong number of RF channels in its RCS, which is not specified by TLV56, when TLV56 is configured.
CSCub43273	The CPU usage of hardware API background process is more than 50%.
CSCub43358	The codewords are not counted for ranging requests on Cisco uBR-MC3GX60V, Cisco UBR-MC20X20V, and Cisco uBR-MC88V line cards.
CSCub43523	Switchover fails during the Cisco UBR-RFSW-ADV image upgrade.
CSCub43540	CMTS crashes after the test hccp rfsw relay command is executed in configuration mode.
CSCub43952	A cable modem goes offline and restarts the w-online process after an RF impairment.
CSCub44765	A CM cannot get all the IPv4 and IPv6 addresses via MIB cdxCmToCpeTable when more than 255 IPv6and IPv4 addresses exist in hosts under the CM.

Bug ID	Description
CSCub44885	The L2TPv3 tunnel does not come up on the Cisco CMTS. Error messages are displayed.
CSCub45028	The pending counter does not clear on channel shutdown.
CSCub45231	IPv6 ACL with UDP Routing Information Protocol (RIP) field does not work.
CSCub46811	The xconnect type L2VPN is not synchronized with the protect card.
CSCub47047	The shutdown and no shutdown of Cisco uBR-MC3GX60V GE (SFP) port causes insert OIR event in call home.
CSCub47647	When the protect line card is down and the line card switches over, the CM or CPE goes offline. However, the show ipv6 dhcp relay binding and show ipv6 route static commands still show the PD route.
CSCub52401	IPv6 spoof MAC detection is not available in IPv6 calling path.
CSCub54877	A dynamic bonding group (DBG) is not automatically shut after the RF impairment recovery.
CSCub55685	If the download is interrupted for a longer period such that the CMTS stops communicating with Cisco UBR-RFSW-ADV switch, it stays in the state where it cannot copy any more images.
CSCub57143	The second BG cannot be selected after line card switchover.
CSCub57956	Memory leak is observed on Cisco uBR10012 router when PRE switches over in RPR redundancy mode.
CSCub57967	One Cisco uBR-MC3GX60V line card works as the modular host line card of SPA and protect card at the same time.
CSCub58043	Traceback is observed when the line card is reset and PRE switches over.
CSCub58534	Ping fails on modem after multiple line card switchover.
CSCub59823	The value of docsIf3BondingGrpCfgChList using SNMP GET is null for cross controller.
CSCub60220	The show logging onboard temperature command does not display any output when Onboard Failure Logging (OBFL) is configured.
CSCub60406	The spectrum record is not updated in the docsIf3CmtsSpectrumAnalysisMeasTable after the spectrum group is configured.
CSCub60558	The value of entPhysicalHardwareRev of the Cisco SIP 600 is not the same as the hardware version shown in the show diag command.
CSCub62559	IPv6 packet is dropped by failed RPF in PXF. However, when the no service pxf command is executed, the IPv6 packets are forwarded by RP.
CSCub62885	After DBC changes the transmit channel set (TCS) of the modem to upstream channel set, the partial mode information is not erased.
CSCub63984	Regular tracebacks occur when cable metering is configured.
CSCub64405	A wrong "IP MTU" configuration message appears in interface configuration when 10 Gigabit Ethernet SPA is configured with MTU and the 10 Gigabit Ethernet SPA interface is removed and added.
CSCub64465	The show pxf cpu mpls command displays incorrect VRF table IDs for MPLS labels.

Bug ID	Description
CSCub64722	LBG assignment cannot be performed for DOCSIS 3.0 CM after PRE switchover and modular-cable interface is configured with dynamic DEPI session.
CSCub64990	The standby PRE crashes after the modem configuration file that includes multicast static TLV is changed and line card switches over.
CSCub65411	All routed packets are incorrectly counted in the show interface stats command on the tunnel interface.
CSCub66606	CMTS PXF crashes when sending large packet through IPv6 IP tunnel.
CSCub66706	Some packets are lost during ping when the modems come online with RF-span.
CSCub67166	The show hccp brief command does not show active line card after the PRE switches over when standby PRE CPU utilization is high. All line cards are shown as standby.
CSCub69510	If DBC is enabled and DBC receive channel configuration (RCC) is performed, when DS service flow information of CM exceeds the maximum TLV buffer, the line card crashes.
CSCub69512	Error message and tracebacks are observed when configuring Q-in-Q backhaul subinterfaces.
CSCub69523	Gigabit Ethernet interfaces on the Cisco Wideband SPA cannot be pinged even if their status is up.
CSCub70877	A CPE gets IPv6 online under mismatched subbundle interface with VPN routing and forwarding (VRF) configured.
CSCub70942	Spurious memory access error is observed.
CSCub71477	The primary wideband and FrwdIF interfaces of a cable modem are different after DBG and DBC operations.
CSCub71498	Memory leak observed on the working line card when RF resiliency is enabled.
CSCub73510	Downstream External PHY Interface (DEPI) sessions are not displayed after a route processor switchover.
CSCub74764	The docsLoadBalGrpDefaultPolicy can be set with a nonexistent policy ID.
CSCub76172	Memory leakage occurs when the virtual bundle fails.
CSCub76413	Throughput is downgraded to 3.3Mpps for IPv4 MPLS VPN downstream traffic.
CSCub76665	After the global SFAC threshold is changed when the protect card is active, global AC threshold does not synchronize from active protect card to standby working card.
CSCub78418	Traffic breaks when any of the following commands are executed at a tunnel interface: <ul style="list-style-type: none"> • no ipv6 enable • no ipv6 address • no ipv4 address
CSCub78736	A wrong downstream channel mapping occurs in the general load balancing group (GLBG) configuration.

Bug ID	Description
CSCub79180	The cable submgmt default filter group exists even after removing the filter group configuration.
CSCub79300	Unable to use the no form of the command for a trusted site IPv6 with the specified IPv6 address.
CSCub81383	Error messages and Traceback is seen when ipv6 dhcp relay destination command is configured.
CSCub81852	Spurious memory access seen with high CPU utilization when cable upstream power-level command is configured on the Cisco CMTS.
CSCub83278	The supervisor card switchover may cause the Cisco CMTS line card switchover.
CSCub83421	The bandwidth of a wideband interface is not 0 when no RF channels are assigned to the interface.
CSCub83502	The multicast service ID of a cable modem is changed with multiple line card switchovers and IGMP leave and join requests.
CSCub83514	Unable to remove the timeout configuration using the no form of the cable service class activity-timeout command.
CSCub83630	All Generic Routing Encapsulation (GRE) tunnel packets are lost after configuring an unsupported tunnel mode.
CSCub83806	The Cisco CMTS router receives “no ranging requests” messages from a polled cable modem MAC address.
CSCub84186	The cable modem goes offline when traffic is sent from the Cisco CMTS router in annex A mode.
CSCub84330	An error observed when a port channel ID is configured with the maximum number.
CSCub84409	A Toaster XRAM parity error is observed with the refresh period register.
CSCub86243	The 128 bit encryption multicast traffic stops after a line card switchover.
CSCub86266	The Cisco CMTS router assigns a wrong TEK lifetime value to cable modems when the modems join a multicast group.
CSCub88667	After a Dynamic Bonding Change (DBC) operation, the cable modem cannot be pinged.
CSCub88707	The Cisco CMTS router denies requests for giant IPC packets after a route processor switchover.
CSCub88736	Configuration of the ToS overwrite of the cable service class changes the downstream service flow attribute.
CSCub89046	CPE is added to a wrong CM after lease query.
CSCub89510	The Cisco CMTS router does not reject real-time polling service (RTPS) service flow with an invalid policy.
CSCub91406	The output of show pxf cable feature-table does not distinguish between DHCPv4 and DHCPv6 source verify inquiries when the source verification of the IPv6 packets is configured on the bundle interface.
CSCub92875	The IPv6 neighbor table is not recovered, and some cable modems cannot be pinged after the multicast downstream service identifier (DSID) forwarding capability is disabled on the Cisco CMTS router.

Bug ID	Description
CSCub92892	IPv6-enabled DOCSIS2.0 compliant modems in multicast DSID forwarding (MDF) explicit mode are not reachable.
CSCub95534	The standby route processor might crash if you use the docsIfDownChannelFrequency MIB object to set RF channel frequency.
CSCub95888	The downstream classifier mismatch is observed after a line card switchover.
CSCub97744	The Subscriber Account Management Interface Specification (SAMIS) metering format cannot contain more than five CPE addresses.
CSCub97931	The show interface cable qos paramset command displays incorrect service flow statistics for a multicast service class.
CSCub98376	Incorrect "Total downtime" is displayed in the show logging onboard uptime command output.
CSCub98936	The standby route processor reloads due to ISSU incompatibility.
CSCub99054	ACFE error message and traceback observed when you copy a configuration with Fairness Across DOCSIS Interfaces enabled to the running configuration.
CSCuc00886	Cable modems with incorrect IPDR counters are observed when the cable primary-sflow-qos11 keep command is used.
CSCuc02813	The behavior of Generic Routing Encapsulation (GRE) tunnel ToS overwrite is not correct when ToS is set to 0.
CSCuc03080	The cable modem count and flow count do not match in the show cable rsvp flow-db command output.
CSCuc09628	The PCMM call bandwidth is not released after removing the PCMM gate.
CSCuc14448	The IPv6 lease query reply message from Cisco Network Registrar is not seen on the Cisco CMTS router due to an incorrect User Datagram Protocol (UDP) source port.
CSCuc15105	A multicast QoS session might cause memory leak when CMs join and leave static IGMP multicast groups.
CSCuc15140	The SNMP agent does not send any traps when cTap2StreamInterceptEnable is false and cTap2StreamStatus is changed from active to "nonService."
CSCuc15156	When cTap2StreamInterceptEnable is set to false, two debug entries are created (cTap2DebugEntry).
CSCuc18671	The Cisco 5-Port Gigabit Ethernet SPA does not forward downstream TLS dot1q Layer 2 VPN traffic.
CSCuc21450	The Cisco CMTS router allows you to set the submanagement default value to a filter group that does not exist.
CSCuc22394	Spurious memory access observed when using the Cisco uBR10-MC5X20H line card.
CSCuc26403	A line card might fail after a Cisco IOS upgrade due to FPGA issues.
CSCuc26682	The RF switch SNMP community configuration is lost after a route processor failover.
CSCuc27433	The Call Home configuration may cause spurious memory access on the Cisco CMTS router.
CSCuc27959	An error occurs when Baseline Privacy Interface (BPI) policy is removed from the Cisco CMTS router.

Bug ID	Description
CSCuc29648	Sometimes, the power boost functionality does not work with IPv6 CMs.
CSCuc33742	An FPGA firmware issue might cause a line card crash.
CSCuc37317	A NULL pointer access might cause a spurious memory error.
CSCuc42208	The Cisco CMTS router drops call flow when the specified cable service flow activity timeout value is reached.
CSCuc44367	The instance range command works only for the first index in a given range.

Resolved Caveats—Cisco IOS Release 12.2(33)SCG1

Bug ID	Description
CSCtb59962	UBR7200-NPE-G2 with auxiliary port connected to the console of an ME-C3750-24TE-MD switch hangs or crashes when reloaded.
CSCtg47944	A RP crash was observed on the Cisco CMTS after removing a bundle subinterface with IPv6 parameters.
CSCtn74216	Memory fragmentation is observed on the Cisco CMTS when cable modems are configured with classifiers.
CSCtx79299	Cable modem goes offline after doing manual HCCP switchover and revertback.
CSCty88142	When the DOCSIS mode is configured as A-TDMA in the startup configuration and fragmentation is enabled, the cable modem comes online in a different upstream after it is reset.
CSCtz14080	Traceback observed on the Cisco CMTS when IP MAC address is updated.
CSCtz25042	Active and standby PRE modules crash on the Cisco CMTS during ISSU negotiation.
CSCtz59978	The clear cable modem command with the following keywords do not work: <ul style="list-style-type: none"> • rcs-counts • call rcs-counts • IPV4 address
CSCtz68155	The Cisco CMTS does not display the primary downstream IPv6 route in the VPN Routing and Forwarding (VRF) interface when DHCPv6 relay packet is configured.
CSCtz74248	Trace back occurs while performing Dynamic Bonding Change (DBC) with RCC ID and SFID options, and ccm all delete or ccm all reset with load balancing enabled.
CSCtz82526	The adjacency event history is not displayed in the show tech-support command on the Cisco CMTS.
CSCtz85895	There is no IGMP traffic and it does not recover even after a line card switchover.
CSCtz87516	CM_INCONSISTENCY message is reported in dynamic LB when wideband auto-reset mode and dynamic LB are enabled.

Bug ID	Description
CSCtz87652	Cisco Discovery Protocol (CDP) packets are sent only from the first member link of the etherchannel group, which causes the remote side to display incorrect information in the output of the show cdp neighbor command.
CSCtz90160	The show cable modem cable x/y/z upstream domain-name command does not display details, such as MAC address, IP address, and domain names.
CSCtz96971	The CPU utilization goes up to 80% on sending upstream-only traffic at 10 Gbps when source verification of IPv6 packets is enabled on the Cisco CMTS router using the cable ipv6 source verify command.
CSCua05551	%HCCP-3-CFG_FAIL: Configuration failed error messages are displayed on the PRE module. The error occurs during protect line card bootup.
CSCua06253	MQoS SIDs are exhausted on the Cisco CMTS and are not allocated to new service flows.
CSCua10865	Cisco CMTS reloads after uninstalling a Cisco Wideband SPA card.
CSCua10891	IPv4 destination or source IP address cannot be matched for input MQC on bundle when the IP access list is configured to include the IPv4 destination or source IP address for input MQC on bundle.
CSCua11702	Standby PRE reloads when HCCP is unconfigured on the Cisco CMTS.
CSCua11732	CMs go offline after an HCCP switchover.
CSCua13267	The Cisco CMTS stops forwarding IPv6 multicast traffic after the CPE leaves the IPv4 multicast groups.
CSCua13563	VRF Steering works with a non-existent VRF.
CSCua14078	Downstream traffic is dropped by CM for invalid DSID in DOCSIS extended header.
CSCua15201	The cable modem cannot get a correct IPv6 address nor get online due to wrong link address and source address.
CSCua19957	OctetsPassed and BytesPassed in the records for a specific Service flow decrease instead if increasing over a period of time.
CSCua22948	%COMMON_FIB-4-FIBHWIDBMISMATCH: mismatch message is observed when the no card and card commands are used for Cisco uBR-MC3GX60V line card and Cisco Wideband SPA.
CSCua23251	PCMM for IPv6 devices fail and DSA-REQ is rejected.
CSCua25507	CPE MAC can be added to the forwarding table even after the CPE is removed. However, the host database and neighbor cache do not include this MAC, which may cause the CPE move to fail.
CSCua25883	Spurious memory access is observed when static multicast is enabled in CM configuration file.
CSCua33061	Traceback is observed when an access group is added to host.
CSCua37535	When the sum of host name length and domain name length exceeds 32 bytes, IPDR records contain corrupted host name strings.
CSCua38434	The change in disk location for storing the log messages, using logging system disk command, does not work after reload.
CSCua40213	Configuration of cable source-verify dhcp fails.

Bug ID	Description
CSCua41672	The show running-configuration all command does not display configured max-reserved bandwidth.
CSCua43019	When the cable upstream filter is configured, Service Independent Intercept (SII) MAC tap types 0x60 and 0x62 send duplicate US IPv6 packets to MD.
CSCua43342	PRE crashes with the following logs in the crash file: %UBR10000-4-OVERLAPIP_CM: Interface Cable6/0/3, IP address 10.36.174.226 assigned to CM 0024.d118.62d8 has been reassigned.
CSCua46119	IPv4 cannot move between modems across MD with source address verification (SAV) configured and the cable source-verify dhcp command enabled on bundle interface.
CSCua47433	%IPC-5-INVALID error message and traceback are observed on the protect line card after commit version.
CSCua49126	When a modem is moved from one BG to another BG using the test cable dbc command, the modem is not pingable.
CSCua49207	The ARP entries are not deleted on the Cisco CMTS after VRF steering is configured.
CSCua49219	When the no bundle interface command is executed before executing the no cable ipv6 pd-route command, error message is displayed.
CSCua51426	Multicast does not work when CPEs in different sub-bundles join the same multicast group.
CSCua59740	The wideband bandwidth of the RF channel does not change even when the bandwidth percentage is modified.
CSCua60069	On the Cisco CMTS router, the SNMP trap ccwbSFPLinkUpNotification may not always be triggered when OIR is performed on the Cisco Wideband SPA.
CSCua60370	DOCSIS 3.0 modems cannot be assigned to DOCSIS 3.0 general load balancing group (GLBG).
CSCua60800	IPv6 unicast Neighbor Discovery (ND) packets sent from the CMTS are handled on the default best effort queue. During congestion, these ND packets can be dropped, which leads to a loss of connection.
CSCua70711	%SYS-3-BADLIST_DESTROY error message is observed on the Cisco uBR-MC3GX60V line card.
CSCua70748	The Cisco uBR-MC3GX60V line card crashes showing %SYS-3-BADMAGIC: Corrupt block error.
CSCua70926	When a new modem is used to override the old modem in VRF environment, the two modems get the same IPv6 address and the stale entry removal fails.
CSCua71403	IPDR Exporter stops sending records to the secondary collector. The secondary collector cannot connect to the Cisco CMTS when primary session is not active.
CSCua74557	CmtsSysUpTime field in Subscriber Account Management Interface Specification (SAMIS) records has the same value for all records during the same time interval.
CSCua74814	Memory loss occurs on the Cisco CMTS due to memory RP classifier update on the cable modem.

Bug ID	Description
CSCua75277	Traceback is observed during bootup after the redundant PRE and standby PRE are booted using Route Processor Redundancy (RPR).
CSCua78236	The upstream frequencies on the Cisco CMTS are not set when docsIfUpChannelFrequency MIB object is used.
CSCua83610	%SYS-3-MEMLITE error message displayed on the Cisco CMTS when memory type is set to chunk on the Cisco CMTS.
CSCua84854	Dynamic Bonding Change (DBC) failure message is displayed for Multicast DSID Forwarding (MDF) compliant modems.
CSCua87302	Prefix Delegation (PD) route in primary downstream interface is lost after Dynamic Channel Change (DCC) is enabled on the Cisco CMTS router.
CSCua91625	The single stack IPv6 CPE keeps changing its state when moving from path to another.
CSCua95554	When the show cable multicast db command is executed, unicast address may be displayed.
CSCua97658	The static IPv6 route does not change when the bundle interface is changed to different virtual routing and forwarding (VRF) instance.
CSCub01259	The Cisco uBR-MC3GX60V line card crashes after a switchover when there are many CPEs behind a cable modem.
CSCub04299	The CPE cannot come online after it moves to different MAC domain when the database for CPE is inconsistent.
CSCub08188	Some cable modems are considered as clones and cannot come online when the cable modems are moved from one MAC domain to another.
CSCub09851	Line card crash observed on the Cisco CMTS due to error interrupt.
CSCub10067	The CPE does not come online after the cable modem and CPE are configured to use different VRFs and dual-stack mode is enabled.
CSCub12198	Cisco uBR-MC3GX60V line card Gi port status is up even if no line card is connected to the port.
CSCub13419	The Source Address Verification (SAV) IPv6 prefixes in the static source-verify group are not correct.
CSCub13563	Incorrect data flow is observed when the second channel is added.
CSCub17093	Incorrect upstream SFID summary is observed after PRE switchover when MPLS L2VPN is configured.
CSCub27091	The Cisco CMTS crashes unexpectedly when IPv6 Bidirectional Protocol Independent Multicast (PIM) is enabled on the interfaces.
CSCub27775	The multicast QoS service IDs for single flows are not allocated to the new cable modems after a PRE module switchover.
CSCub30207	A DHCPv6 Leasequery (LQv6) is issued when a CPE is getting into the IPv6 online state using DHCPv6 relay path.
CSCub45040	The Cisco CMTS crashes when many DOCSIS Set-Top Gateway (DSG) tunnel groups with the same DSG are configured.
CSCub50729	IPv6 can crash without reset interrupt.

Bug ID	Description
CSCub55129	Synchronization between secondary and active PRE modules does not occur, when the DEPI CPU threshold values are modified.
CSCub60453	The cable router (where the router is the CPE and integrated in the CM) is able to get an IP address for the CM but not for the CPE (the integrated router).

Open Caveats—Cisco IOS Release 12.2(33)SCG

Bug ID	Description
CSCtc62096	Dynamic multicast service flow and reserved bandwidth exist even after the removal of the multicast QoS (MQoS) configuration from the second bonding group.
CSCti12590	Querying "getnext" with ipCidrRouteDest returns an OID that is not lexicographically larger than the queried OID.
CSCti28695	The ipv6ScopeZoneIndexTable shows null interface.
CSCtk15093	CPE, in one multicast VPN, incorrectly receives traffic destined to a CPE in another multicast VPN.
CSCtl22266	The DOCSIS general load balancing group information is lost from the mac domain cable modem service group after a PRE switchover occurs.
CSCtn96470	The carrier-to-noise ratio (CNR) accuracy varies on the Cisco uBR-MC3GX60V line card.
CSCto57723	<p>Cisco IOS Software and Cisco IOS XE Software contain a vulnerability that could allow an unauthenticated, remote attacker to cause a denial of service (DoS) condition. An attacker could exploit this vulnerability by sending a crafted request to an affected device that has the DHCP version 6 (DHCPv6) server feature enabled, causing a reload.</p> <p>Cisco has released free software updates that address this vulnerability. This advisory is available at the following link: http://tools.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-2012</p>
CSCts20435	CPE schema record contains IPv6 link-local address (LLA) address of the CPE.
CSCtv00599	The Routing Information Protocol (RIP) updates are not seen on the Cisco CMTS after a PRE crash or switchover.
CSCtw66769	The Cisco uBR-MC3GX60V line card IPC timeout causes a line card switchover or a line card reload.
CSCtw98544	Error message is seen on standby PRE.
CSCtx37531	The Cisco uBR-MC3GX60V line card logs a message (%BCM3142-3-READ_ERR_SEQ) and stops passing traffic.
CSCtx79299	Cable modem goes offline after doing manual HCCP switchover and revertback.

Bug ID	Description
CSCty18719	Cisco IOS may crash while configuring ACLs from multiple CLI terminals at the same time.
CSCty65044	Incorrect delta on ServiceOctetsPassed counters on a Cisco uBR10012 router running Cisco IOS Release 12.2(33)SCE4 with IPDR exporter in progress.
CSCty78822	The Cisco UBR-MC20X20 and Cisco uBR10-MC5X20 cable line cards fail to boot up and the "%LCINFO-4-LCHUNG" is displayed.
CSCtz02213	The show run command output has empty init-tech-list. Also, invalid range such as 100-0 is accepted by the init-tech-list.
CSCtz14627	After GigEthernet port is shut down, DEPI sessions are not removed when DEPI is configured in DEPI control plane mode.
CSCtz17459	A single-event upset (SEU) error puts Cisco uBR-MC3GX60V and Cisco UBR-MC20X20 line cards into a corrupted state where the card cannot gracefully recover.
CSCtz25042	When the system reloads, both active PRE and standby PRE crash.
CSCtz29975	The standby PRE crashes on PRE switchover.
CSCtz33203	The DEPI sessions are stuck in ICRP state.
CSCtz42496	Packet loss is observed on the upstream ports on the Cisco uBR10012 router running Cisco IOS Release 12.2(33)SCF2 and having Cisco UBR-MC20X20V line card and Cisco uBR-MC3GX60V line card.
CSCtz59978	The clear cable modem command with the following keywords do not work: <ul style="list-style-type: none"> • rcs-counts • all rcs-counts • IPV4 address
CSCtz68155	Cisco CMTS does not purge the PD route in the VPN Routing and Forwarding (VRF) on DHCPv6 release.
CSCtz68573	Deleted controller modular-cable configurations are not synchronized on the protect line card.
CSCtz71368	The output of the show hccp linecard subslot modem summary total command is not synchrony with the show cable modem summary total command.
CSCtz74248	Trace back occurs while performing Dynamic Bonding Change (DBC) with RCC ID and SFID options, and ccm all delete or ccm all reset with load balancing enabled.
CSCtz80972	Traceback occurs after moving the CM from IPv6 online/w-online to IPv4 online/w-online.
CSCtz82526	The show tech command does not display the event history of the adjacency.
CSCtz85895	There is no IGMP traffic and it does not recover even after a line card switchover.
CSCtz86693	The PRE and Cisco uBR-MC3GX60V line card stop working after IPv6 upstream traffic is sent.

Bug ID	Description
CSCtz87652	Cisco Discovery Protocol (CDP) packets are sent only from the first member link of the etherchannel group, which causes the remote side to display incorrect information in the output of the show cdp neighbor command.
CSCtz90160	The show cable modem cable x/y/z upstream domain-name command does not display details, such as MAC address, IP address, and domain names.
CSCtz99874	The Cisco CMTS does not initiate an N+1 failover when the Gigabit Ethernet link is down.
CSCua05976	SPA channels remain up even when the modular-host is down. CMs on SPA are pingable.
CSCua06253	MQoS SIDs are exhausted on the Cisco CMTS and are not allocated to new service flows.
CSCua06500	Error message "Bad refcount in datagram_done" is displayed with traceback.
CSCua09921	The CPU thresholds are low and can cause line card failovers resulting in the modems to fall offline.
CSCua10330	Processor misses hello packets that can cause false failovers.
CSCua10865	Cisco CMTS reloads itself after uninstalling a Cisco Wideband SPA card.
CSCua11055	After the protect line card comes up, error messages are displayed to indicate duplicate SNMP registration.
CSCua11668	Wideband interface of SPA cannot be configured correctly.
CSCua11702	Standby PRE reloads when HCCP is unconfigured.
CSCua11732	CMs go offline after an HCCP switchover.
CSCua12085	The show interface cable command displays incorrect packets input counter after a Cisco uBR-MC3GX60V line card switchover.
CSCua12456	The values for ccwBRFChannelUtilization and docsIfCmtsChannelUtUtilization are calculated incorrectly.
CSCua13267	The Cisco CMTS stops forwarding IPv6 multicast traffic after the CPE leaves the IPv4 multicast groups.
CSCua13328	Error messages are displayed when one running-configuration is replaced with another running-configuration.
CSCua13563	VRF Steering works with a non-existent VRF.
CSCua14078	Downstream traffic is dropped by CM for invalid DSID in DOCSIS extended header.
CSCua15201	CM cannot get a correct IPv6 address nor get online due to wrong link address and source address.
CSCua19957	OctetsPassed and BytesPassed in the records for a specific Service flow decrease instead if increasing over a period of time.
CSCua23251	PCMM for IPv6 devices fail and DSA-REQ is rejected.
CSCua23529	CM has incorrect upstream bounding group after the load balance operation is performed.

Bug ID	Description
CSCua25507	CPE MAC can be added to the forwarding table even after the CPE is removed. However, the host database and neighbor cache do not include this MAC, which may cause the CPE move to fail.
CSCua25760	After a Cisco UBR-MC20X20 line card switchover, error and warning messages are displayed while configuring HCCP.
CSCua25855	CM can get IPv4 and IPv6 addresses from the CNR, but fails to get the configuration file.
CSCua33517	Configuration of dhcp-giaddr policy host and secondary addresses under bundle interface is not accepted by the Cisco CMTS. However, no warning message is displayed that the configuration was not accepted.
CSCua34199	DOCSIS 2.0 SAMIS Schema template is missing two fields - ServiceGateId and CMcpeIpv4List.
CSCua35518	The cable modem name domain-name max-hosts host_num command does not execute correctly.
CSCua36877	The CM throttling queue size is much larger than actual number of CMs.
CSCua37298	CMs configured for the upstream channel bonding (USCB) bond to an incorrect bonding group and display incorrect transmit channel set (TCS).
CSCua38362	The show interface bundle command reports very high input and output rate, as well as high input and output counter values.
CSCua40213	Configuration of cable source-verify dhcp fails.
CSCua40825	IPC communication issues occur. Messages similar to the following can be seen in logs: "SLOT 6/1: Jun 4 10:13:23.764: CR10K_CLNT-3-IPCTXERR IPC send failure: client=0 entity=1 ses=6/0 msg=22 err=timeout"
CSCua41672	The show running-configuration all command does not display configured max-reserved bandwidth.
CSCua43342	PRE crashes with the following logs in the crash file: %UBR10000-4-OVERLAPIP_CM: Interface Cable6/0/3, IP address 10.36.174.226 assigned to CM 0024.d118.62d8 has been reassigned.
CSCua45329	The Cisco CMTS does not issue DHCP Leasequery (LQ).
CSCua47255	The value for the serviceClassName element is missing in the DOCSIS 2.0 IPDR/SP.

Resolved Caveats—Cisco IOS Release 12.2(33)SCG

Bug ID	Description
CSCtx77976	CMs do not come online when reloading the Cisco CMTS while the protect line card is active.
CSCtz57981	PRE reloads when 384 IPv6 rules are configured and after PRE switchover.
CSCtz64901	Cisco uBR-MC3GX60V line card crashes with %SYS-2-FREEBAD: Attempted to free memory at FD on a Cisco uBR10012 router running Cisco IOS Release 12.2(33)SCF2.

Bug ID	Description
CSCtz91342	The output of the show cable modem mac cpe and show cable modem mac ipv6 cpe commands do not match.
CSCtz93547	Repeated Cisco uBR-MC3GX60V line card switchovers cause the downstream LED on the Next Generation RF Switch Advanced to be stuck at BLUE (protected mode).
CSCtz95968	Dual stack CPEs cannot acquire IPv4 or IPv6 address they are moved from one modem to another modem and changed to IPv4- or IPv6-only mode within same MAC-domain.
CSCua02221	The CM silently drops the DHCPV6 DECLINE message for a duplicate DHCPv6 request.
CSCua03712	Equivalent for the <code>cmts_remove_stale_entr()</code> for IPv6 for all IPv6 address paths does not exist.
CSCua13393	No support for the show interface cable modem ipv6 command.
CSCua13577	The sub-interface receives traffic even after its status change to "administrator down".
CSCua13614	The Cisco CMTS crashes when it receives the SSM MLD report message.
CSCua20447	Advanced Spectrum Management does not work on the Cisco uBR-MC3GX60V line cards.
CSCua20917	Communication failure between the Cisco CMTS and the Cisco Next Generation RF Switch.
CSCua30576	Only a small percentage of CMs are registered or come online after a period of time.
CSCua38828	The Cisco uBR-MC3GX60V line card crashes and resets.
CSCua39480	The Cisco uBR-MC3GX60V line card crashes due to "SegV exception" error.
CSCua39574	CM goes offline when RF impairment is restored.
CSCua48216	Firstly, IPDR collector continues to disconnect and reconnect with the Cisco CMTS. Secondly, time stamp values are negative in the IPDR protocol packets received by collector.
CSCua51495	The Cisco CMTS does not use the correct giaddr for different types of CPEs.
CSCua52110	The route processor (RP) loses the IPv6 CPE information.
CSCua52793	The IP address of CPE, when changed, is not reflected on the standby PRE.
CSCua56220	The receive channel configuration (RCC) of the route processor incorrectly shows downstream channels as non-primary capable.

