



Release Notes for Cisco cBR Series Converged Broadband Routers for Cisco IOS XE Everest 16.6.x

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CHAPTER 1

Introduction

This release notes contain information about downloading and installing Cisco IOS XE Release 16.6.x and its maintenance releases. It also provides new and changed information, hardware support, limitations and restrictions, and caveats for Cisco IOS XE Release 16.6.x and its maintenance releases.

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 XE Release 16.6.x is generally available for field deployment. However, we recommend that you validate and qualify Cisco IOS XE Release 16.6.x 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, on page 1](#)
- [New Software Features in Cisco IOS XE Everest 16.6.2, on page 6](#)
- [MIBs, on page 8](#)
- [Best Practice Manual of Procedure for Cisco IOS XE Everest 16.6.x Upgrade, on page 8](#)
- [Cisco cBR Series Converged Broadband Routers Documentation References, on page 8](#)
- [Obtaining Documentation and Submitting a Service Request, on page 8](#)

System Requirements

These sections describe the system requirements for Cisco IOS XE Everest 16.6.x:

Memory Requirements for Cisco IOS XE Release 16.6.1

The following table displays the memory recommendations for the Cisco cBR Series Converged Broadband Routers with Cisco IOS XE Release 16.6.1 feature sets.

Table 1: Memory Recommendations for the Cisco cBR Series Converged Broadband Routers

Feature Set	Cisco cBR Route Processor	Software Image	Recommended Flash Memory	Recommended DRAM Memory	Runs From
CISCO IOS-XE universalk9	Cisco cBR8 (CBR) Processor	cbrsup-universalk9.03.15.00.S.155-2.S-std.SPA.bin	8G	48G	Bootflash:
CISCO IOS-XE CLC K9	Cisco cBR8 (CYLONS) Processor	cbrsup-universalk9.03.15.00.S.155-2.S-std.SPA.bin	8G	16G	Supervisor

Memory Requirements for Cisco IOS XE Release 16.6.2

The following table displays the memory recommendations for the Cisco cBR Series Converged Broadband Routers with Cisco IOS XE Release 16.6.2 feature sets.

Table 2: Memory Recommendations for the Cisco cBR Series Converged Broadband Routers

Feature Set	Cisco cBR Route Processor	Software Image	Recommended Flash Memory	Recommended DRAM Memory	Runs From
CISCO IOS-XE universalk9	Cisco cBR8 (CBR) Processor	cbrsup-universalk9.03.15.00.S.155-2.S-std.SPA.bin	8G	48G	Bootflash:
CISCO IOS-XE CLC K9	Cisco cBR8 (CYLONS) Processor	cbrsup-universalk9.03.15.00.S.155-2.S-std.SPA.bin	8G	16G	Supervisor

Hardware Supported for Cisco IOS XE Release 16.6.x

For detailed information about the hardware supported in Cisco IOS XE Release 16.6.x and its maintenance releases, see:

http://www.cisco.com/c/en/us/td/docs/cable/cbr/installation/guide/b_cbr_how_and_what_to_order.html.



Note The Cisco cBR chassis must house line cards with either Downstream DOCSIS 3.0 PHY modules or Downstream DOCSIS 3.1 PHY modules. Mixed configuration is not supported.

Determining the Software Version for Cisco IOS XE Release 16.6.1

To determine the version of the Cisco IOS XE software running on your Cisco cBR Series Converged Broadband Routers, log in and enter the **show version EXEC** command:

```
BXB-PSIT#show version
Load for five secs: 16%/3%; one minute: 21%; five minutes: 21%
Time source is NTP, 10:55:04.284 EDT Fri Jul 28 2017
Cisco IOS XE Software, Version 16.06.01
Cisco IOS Software [Everest], cBR Software (X86_64_LINUX_IOSD-UNIVERSALK9-M), Version
16.6.1, RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2017 by Cisco Systems, Inc.
Compiled Sat 22-Jul-17 05:48 by mcpre
```

```
Cisco IOS-XE software, Copyright (c) 2005-2017 by cisco Systems, Inc.
All rights reserved. Certain components of Cisco IOS-XE software are
licensed under the GNU General Public License ("GPL") Version 2.0. The
software code licensed under GPL Version 2.0 is free software that comes
with ABSOLUTELY NO WARRANTY. You can redistribute and/or modify such
GPL code under the terms of GPL Version 2.0. For more details, see the
documentation or "License Notice" file accompanying the IOS-XE software,
or the applicable URL provided on the flyer accompanying the IOS-XE
software.
```

```
ROM: IOS-XE ROMMON
```

```
BXB-PSIT uptime is 1 day, 14 hours, 41 minutes
Uptime for this control processor is 1 day, 14 hours, 45 minutes
System returned to ROM by reload at 10:59:52 EDT Tue Jul 25 2017
System restarted at 20:13:52 EDT Wed Jul 26 2017
System image file is "harddisk:cbrsup-universalk9.16.06.01.SPA.bin"
Last reload reason: PowerOn
```

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

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

```
If you require further assistance please contact us by sending email to
export@cisco.com.
```

```
Cisco cBR-8 (CBR) processor (revision CBR) with 10430706K/6147K bytes of memory.
Processor board ID FXS2038Q3GE
16 Gigabit Ethernet interfaces
32768K bytes of non-volatile configuration memory.
50331648K bytes of physical memory.
7739391K bytes of eUSB flash at bootflash:.
97620247K bytes of SATA hard disk at harddisk:.
0K bytes of WebUI ODM Files at webui:.
```

```
Configuration register is 0x0 (will be 0x2 at next reload)
```

```
BXB-PSIT#
```

Determining the Software Version for Cisco IOS XE Release 16.6.2

To determine the version of the Cisco IOS XE software running on your Cisco cBR Series Converged Broadband Routers, log in and enter the **show version EXEC** command:

```
BXB-PSIT#show version
Load for five secs: 16%/3%; one minute: 21%; five minutes: 21%
Time source is NTP, 10:55:04.284 EDT Fri Jul 28 2017
Cisco IOS XE Software, Version 16.06.02
Cisco IOS Software [Everest], cBR Software (X86_64_LINUX_IOSD-UNIVERSALK9-M), Version
16.6.1, RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2017 by Cisco Systems, Inc.
Compiled Sat 22-Jul-17 05:48 by mcpre
```

```
Cisco IOS-XE software, Copyright (c) 2005-2017 by cisco Systems, Inc.
All rights reserved. Certain components of Cisco IOS-XE software are
licensed under the GNU General Public License ("GPL") Version 2.0. The
software code licensed under GPL Version 2.0 is free software that comes
with ABSOLUTELY NO WARRANTY. You can redistribute and/or modify such
GPL code under the terms of GPL Version 2.0. For more details, see the
documentation or "License Notice" file accompanying the IOS-XE software,
or the applicable URL provided on the flyer accompanying the IOS-XE
software.
```

```
ROM: IOS-XE ROMMON
```

```
BXB-PSIT uptime is 1 day, 14 hours, 41 minutes
Uptime for this control processor is 1 day, 14 hours, 45 minutes
System returned to ROM by reload at 10:59:52 EDT Tue Jul 25 2017
System restarted at 20:13:52 EDT Wed Jul 26 2017
System image file is "harddisk:cbrsup-universalk9.16.06.01.SPA.bin"
Last reload reason: PowerOn
```

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

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

If you require further assistance please contact us by sending email to export@cisco.com.

```
Cisco cBR-8 (CBR) processor (revision CBR) with 10430706K/6147K bytes of memory.
Processor board ID FXS2038Q3GE
16 Gigabit Ethernet interfaces
32768K bytes of non-volatile configuration memory.
50331648K bytes of physical memory.
7739391K bytes of eUSB flash at bootflash:.
97620247K bytes of SATA hard disk at harddisk:.
```



```

OK bytes of WebUI ODM Files at webui:.

Configuration register is 0x0 (will be 0x2 at next reload)

BXB-PSIT#

```

Microcode Software for Cisco IOS XE Release 16.6.1

This section describes microcode software that is supported for the Cisco cBR Series Converged Broadband Routers.

For more information, see the [Upgrading the Cisco cBR Series Converged Broadband Routers for Cisco IOS XE Everest 16.6.x](#) guide.

Microcode Software for Cisco IOS XE Release 16.6.2

This section describes microcode software that is supported for the Cisco cBR Series Converged Broadband Routers.

Table 3: Firmware Packages and Versions Supported in Cisco IOS XE Everest 16.6.2

Component	Programmable Device	Software Version	Upgrade Package
CBR-CCAP-SUP-160G	Rommon version	16.6(1r)S	Auto upgrade
CBR-CCAP-SUP-160G	CPLD version	16052011	based318sp_with_166firmware.pkg
CBR-CCAP-LC-40G	CPLD version	00000025	based318sp_with_166firmware.pkg
CBR-CCAP-LC-40G	Rommon version	2011.03.18	Auto upgrade
CBR-CCAP-LC-40G	PSOC	4.6	based318sp_with_166firmware.pkg
CBR-CCAP-LC-40G Gemini-1 LC ¹	MicroController Version	1.E	based318sp_with_166firmware.pkg
CBR-CCAP-LC-40G Gemini-1 LC ²	Apollo version	2.F	based318sp_with_166firmware.pkg
CBR-CCAP-LC-40G Gemini-2 LC ³	MicroController Version	3.19	based318sp_with_166firmware.pkg
CBR-CCAP-LC-40G Gemini-2 LC ⁴	Apollo version	4.484B	based318sp_with_166firmware.pkg
Node	U-Boot	Feb 16 2017 - 09:03:06 +0800	Upgrade is not required
Node	IOFPGA	0x0252	Upgrade is not required
Remote PHY Compact Shelf RPD	U-Boot	2016.01(Apr 12 2017 - 09:13:28 +0800)	Upgrade is not required

Component	Programmable Device	Software Version	Upgrade Package
Remote PHY Compact Shelf RPD	IOFPGA	0x0354	Upgrade is not required
Remote PHY Compact Shelf PSIO	CPLD version	9	Upgrade is not required. Check with <code>show group info</code> .

¹ CBR-D30-DS-MOD

² CBR-D30-DS-MOD

³ CBR-D31-DS-MOD

⁴ CBR-D31-DS-MOD

For more information, see [Upgrading the Cisco cBR Series Converged Broadband Routers for Cisco IOS XE Everest 16.6.x](#) guide.

Feature Support

Cisco IOS XE 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 XE software images are included in a release. Each feature set contains a specific set of Cisco IOS XE features.



Caution

Cisco IOS XE 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.

New Software Features in Cisco IOS XE Everest 16.6.2

There are no new software features in Cisco IOS XE Everest 16.6.2.

New Software Features in Cisco IOS XE Everest 16.6.1

BFS QAM Configuration

The BFS provides a mechanism for a standardized downloading of applications, games, images, and other data formats required by the applications. The BFS QAM enables the router to transfer the broadcast data from an EC to the target platform such as a set-top unit.

Expanded GQI Protocol Support

Cisco cBR-8 routers support the Generic QAM Interface (GQI) version 1, version 1 Extension, and version 2. The GQI v1 Extension provides a more neutral distribution path to non-cisco SRM products. This version

supports type-2 commands, three announce messages, and offers a filtering mechanism to alleviate flooding the SRM with events. GQIv1 extension also supports more than 255 QAM carriers on each LED.

Remote PHY DOCSIS 3.1 OFDM Channel Configuration

Cisco cBR routers support DS OFDM channels in an R-PHY system. The OFDM-channel-support includes one OFDM channel for each Remote PHY device (RPD) with a channel bandwidth up to 192 MHz and the modulation up to 4096 QAM.

Capped License Enforcement

The capped license enforcement feature allows you to set a limit to the number of licenses for each licensed feature on Cisco cBR-8.

Dynamic Multicast Replication Session

When users enable IPTV service on the Cisco cBR routers, to enhance the performance, the Cisco cBR routers support caching of dynamic multicast sessions, provide faster multicast forwarding, and provides faster and efficient IP Communicator messages.

Remote PHY PowerKey VOD

The line cards in R-PHY mode on Cisco cBR-8 supports session-based PowerKey VOD. PowerKEY VOD allows the operator to provide secure, encrypted video streams to a particular subscriber over the RF plant.

DOCSIS 3.1 Upstream

This feature supports DOCSIS 3.1 upstream on Cisco cBR-8 router. It includes the support for OFDMA channel, OFDMA channel bonding, upstream profile selection, upstream path selection, and so on.

DOCSIS 3.1 Downstream Resiliency for OFDM Channel

This feature supports the DOCSIS 3.1 downstream resiliency for OFDM channel. When the cable modem reports RF channel failure, downstream resiliency will take corresponding actions.

D3.1: Multiple OFDM channels per port: 16 per LC

This allows the profile override to be specified for a particular downstream OFDM channel. Thus with 2 OFDM downstream channels on a single CM, each channel can have a unique profile override.

New Software Features in Cisco IOS XE Everest 16.6.2

There are no new software features in Cisco IOS XE Everest 16.6.2.

Modified Software Features in Cisco IOS XE Everest 16.6.1

Lawful Intercept

The maximum value of cTap2MediationTimeout is updated to 260640 minutes.

Cisco Remote PHY Out-of-Band

Cisco RPD 2.1 system supports OOB 55-2. The OOB 55-2 system has a scheduled TDMA upstream, which is intolerant to packet network latency.

Modified Software Features in Cisco IOS XE Everest 16.6.2

There are no modified software features in Cisco IOS XE Everest 16.6.2.

MIBs

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

<https://mibs.cloudapps.cisco.com/ITDIT/MIBS/servlet/index>

New and Changed MIB Information in Cisco IOS-XE Everest 16.6.1

The DOCS-IF31-MIB and CISCO-DOCS-EXT-MIB was changed in Cisco IOS-XE Everest 16.6.1.

New and Changed MIB Information in Cisco IOS-XE Everest 16.6.2

There are no new or changed MIB information in Cisco IOS-XE Everest 16.6.2.

Best Practice Manual of Procedure for Cisco IOS XE Everest 16.6.x Upgrade

See the [Upgrading the Cisco cBR Series Converged Broadband Routers for Cisco IOS XE Everest 16.6.x](#) guide.

Cisco cBR Series Converged Broadband Routers Documentation References

Go to the following link to access the technical documents:

<http://www.cisco.com/c/en/us/support/video/cbr-series-converged-broadband-routers/tsd-products-support-series-home.html>

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

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



CHAPTER 2

Caveat List

This chapter describes open severity 1 and 2 caveats and select severity 3 caveats.

The *Open Caveats* section lists 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 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, on page 11](#)
- [Open Caveats Cisco IOS XE Everest 16.6.1, on page 12](#)
- [Open Caveats Cisco IOS XE Everest 16.6.2, on page 14](#)
- [Resolved Caveats Cisco IOS XE Everest 16.6.1, on page 15](#)
- [Resolved Caveats Cisco IOS XE Everest 16.6.2, on page 17](#)

Cisco Bug Search

Use the [Cisco Bug Search Tool](#) to access open and resolved bugs for a release.

The tool allows you to search for a specific bug ID, or for all bugs specific to a product and a release.

Save Search Load Saved Search Clear Search Email Current Search

Search For: Examples: CSCtd10124, router crash, etc...

Product: Select from list

Releases: Enter release number

368025

You can filter the search results by last modified date, bug status (open, resolved), severity, rating, and support cases.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see [What's New in Cisco Product Documentation](#).

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

Open Caveats Cisco IOS XE Everest 16.6.1

Caveat ID Number	Description
CSCvf34701	16.6.1 - STB gets stuck on US4 instead of being moved by RLBG
CSCve92604	DSID mismatch between SUP and LC
CSCvf17593	Part of PCMM mcast db remain while gatedelete return success
CSCvf25891	service flow created by dsg not re-created after SUPHA
CSCve18193	SID not release after change wideband bundle
CSCve09914	Stby reload automaticly when config exist ipdr-related running-config to active sup
CSCvf33795	All modems are disappeared after cdman restart in the automation
CSCve88453	Automore feature broken for 'show cable signal-quality cmts' cmd
CSCvf32716	CBR8 impacting queue drain on 3.18.1aSP
CSCve28505	cdman: US-PHY PHY6 ch:1 rx intUsProcbFlow isr
CSCvf26114	CURL: issue found in comprehensive LCHA/LCPR/SUPHA test of Scheduler enable/disable/rate CLI
CSCve79762	D3.1 CM stuck in init(o) status after DS controller profile changed or RPD-reconfig w/ auto-DCID
CSCvf20348	D3.1 US: Probes with power errors should be ignored and probes should use Adjust instead of Set TLV
CSCvf02250	ltc3882 LC errors observed with 16.5.1 FW
CSCve88199	Modems switch to lower modulation data-iuc right after LCHA for about 20 seconds

Caveat ID Number	Description
CSCvf18412	OFDMA: Max-bit-rate config for CURL stuck at 400Mbps and does not reflect other changes
CSCvf04299	Protect LC rebooting continuously after loading Operation simplification config
CSCve11835	RPHY: Controller not be consistent with ds_prof after freq alloc failed when changing qam-profile.
CSCvf16487	Upstream TCP traffic drops down for 30s before coming back
CSCve56192	With Traffic, CM US power incremental power adjustments until max power is reached
CSCuy48322	Could not set value for mib ccqmEnfRuleViolateNotifEnable with OpsConfig
CSCva21658	cbr8 - service flow state are pro for certain modems
CSCve73300	cBR8 line card reload at cmts_us_sched_flow_clear
CSCvf37518	cbr8: cdxIfUpChannelMaxUGSLastOneHour value not same after LCHA
CSCve53153	OFDM related info are still shown up even D3.1-mode disable
CSCve89151	suggest command "cable primary-sflow-qos11 keep all" follow 10k implement
CSCve09712	Traceback @ intr_stat_snapshot_and_process after SUPHA
CSCvf29141	Updates to MD-DS-SG Regenerate Freq Based Template RCCs
CSCve72030	VOIP Jitter is bigger than 5ms when configure 43 UGS with modulation profile 24
CSCva94951	Cable modem IPv6 address out-of-sync between SUP and CLC
CSCvf28887	CBR8 Misreports In/Out Octet Counters on Etherchannel Subinterfaces
CSCve93873	STM, the Penalty Duration set in configuration vs. show subscriber-usage does not matched
CSCve65478	"%HA_CONFIG_SYNC-3-LBL_CFGSYNC: Unable to sync msg printed out when system bootup
CSCve98122	After LCHA and reset rpd before new sty-lc online, all rpd can't online due to gcp fail
CSCvf27415	cBR8 "show harddisk: all:" command output incomplete/cut-off before displaying all files
CSCve11015	EDVT: HW_PFU-3-PFU_IDPROM_CORRUPT: R0/0: emd: The PEM/FM idprom could be read ...
CSCvd94507	IOSd restart after LCPR
CSCvb47406	iosd-clc or ios-db reload after line card IOSd process restart
CSCvf21542	RPHY: Pri core stuck in GCP after switch LC delete rpd

Caveat ID Number	Description
CSCux40403	Traffic loss in average of 9~10 seconds after CDMAN crash
CSCvf37844	Unexpected CRITICAL facility alarm reported for DPIC 10G ports after sup test crash
CSCvf05030	Upgrade Supervisor PSOC causes Supervisor reload
CSCve12127	"(config-rpd)#no rpd-event profile" does not work.
CSCvf32565	RPHY: RPD stuck at init(l2tp) after change identifier
CSCvc85337	Traceback@be_process_events_waiting_p when do command "cable rpd ssd all status"
CSCve89033	RPHY IPDR util did not report actually channel utilization
CSCve87440	cBR8/3.18.1aSP - Powerkey cable video session goes in fail-to-black after initial configuration
CSCvf20161	GQI announce message (5406/2104) not sent on switch to good source
CSCve00370	Multicast Source-Switch skipping some Active Sources
CSCvf33535	PSIT:Session create configs with vei_bundle getting removed on reloading cbr-8 with inactive LED

Open Caveats Cisco IOS XE Everest 16.6.2

Caveat ID Number	Description
CSCva94951	Cable modem IPv6 address out-of-sync between SUP and CLC
CSCvd94507	IOSd restart after LCPR
CSCve00370	Multicast Source-Switch skipping some Active Sources
CSCve09914	Stby reload automaticly when config exist ipdr-related running-config to active sup
CSCve11015	EDVT: HW_PFU-3-PFU_IDPROM_CORRUPT: R0/0: emd: The PEM/FM idprom could be read ...
CSCve12127	"(config-rpd)#no rpd-event profile" does not work.
CSCve18193	SID not release after change wideband bundle
CSCve53153	OFDM related info are still shown up even D3.1-mode disable
CSCve79762	D3.1 CM stuck in init(o) status after DS controller profile changed or RPD-reconfig w/ auto-DCID
CSCve88199	Modems switch to lower modulation data-iuc right after LCHA for about 20 seconds
CSCve88453	Automore feature broken for 'show cable signal-quality cmts' cmd

Caveat ID Number	Description
CSCve89033	RPHY IPDR util did not report actually channel utilization
CSCve93873	STM, the Penalty Duration set in configuration vs. show subscriber-usage does not matched
CSCvf02250	lrc3882 LC errors observed with 16.5.1 FW
CSCvf05030	Upgrade Supervisor PSOC causes Supervisor reload
CSCvfi2238	stress shut/no shut script with Video and DOCSIS causes DS-JIB DQ pkt len decrement Partial Reset
CSCvf32565	RPHY: RPD stuck at init(l2tp) after change identifier
CSCvf38669	Process ubrcic_k9lc restarted on CLC2 during system boot-up time
CSCvf56861	Found error message CBR-4-DSID_DUPLICATE on standby SUP when delete dsgr cfr
CSCvf90746	Tier Based Sessions encrypted in CP extension become Fail-to-black after LCHA
CSCvg10166	RPHY card keeps crashing when modulation profile uses "a-long 254"
CSCvg23049	cbr8 - issue with US Spectrum Analyzer not reporting ingress under carrier correctly
CSCvg25988	OFDM channel down for D3.1 CM SW workaround (even NCP CCC)
CSCvg34464	upstream oob-55d1 us mapping physical id to logical id to NC configuration
CSCvg40844	Bad Throughput seen on 16.6.1 with RPHY and BPI+ enabled

Resolved Caveats Cisco IOS XE Everest 16.6.1

Caveat ID Number	Description
CSCve17964	After CM enter battery mode, DSxUS is not as expected 1x1.
CSCve17659	CLC reset @ cmts_lb_cm_us_chans_in_group when shut the US channel
CSCve54739	when LB trigger DFO on D1.0 QoS provision modems, the target is "/0"
CSCve09340	cBR8 linecard cdman restart @ ubrcce_cdm_infra_handle_hwevent
CSCve51879	LC reload after doing stress test shut/no shut controller
CSCve38317	show cable hop missed poll percent and average% showing incorrect values in adv spectrum management
CSCve26644	US data SNR degrades over time
CSCvd23187	DBS on OFDM is not working as expected

Caveat ID Number	Description
CSCvd98223	"cable upstream balance-scheduling" is configured, but "us_balance:OFF"
CSCve19250	cable primary-sflow-qos11 keep all not applied
CSCvd23836	IPDR diaglog event and diaglog detail can't report all fail CMs
CSCve58503	Mismatch with CM primary wideband interface and CM DS SF forwarding interface
CSCve19262	Modems unpingable with Invalid HWflow ID after DS Resiliency events
CSCve55144	RNG-RSP status cancel send to quickly with pre-eq active
CSCvf17779	Supervisor reload at process "RF Resiliency Proc" when the mac-domain is shutdown
CSCve05401	BPI index mismatch causing CM L3 fail after LCHA
CSCve30669	cable dynamic-flow not in running after reload
CSCvc84902	cBR-8 supervisor reloads due to a freed chunk access during glean processing
CSCvd98815	CBR8 - broadcast dhcp lease active packets are sent to CMs although bootp flaq is unicast
CSCve77989	cBR8 - Downstream L2VPN Dot1Q packets dropped
CSCvf10719	cBR8 linecard reload caused by show cable privacy hotlist cm command
CSCve39863	Rogue NA messages are corrupting ipv6 neighbor table.
CSCve49908	SNMP get cdxCmtsCmMaxCpeNumber return wrong value
CSCve92417	"LOW_FPA_ERROR" buffer leak caused by the timer stop failures
CSCve87071	RPHY: L3 ping failed after DCC then switch LC on MD 1-15
CSCvd10399	ServiceFlowChSet field in STOP record of US SF changed after cle-iosd restart or lso.
CSCve65672	Total size of the USB disk: is wrong after format the USB disk:
CSCve32926	Unable to get compMemPoolEntry after SUP switchover
CSCve38495	with 896k us service-flows, stby LC can't bootup after reload
CSCvc06362	cBR8 - 3.18.0SP - Add show cable video session all and summary commands
CSCve87567	SUP reload while deleting session when LED debug enabled
CSCve15082	VSRM Zone Config causes LED & VSRM out-of-sync issue
CSCve76555	Support of content with dedicated PCR pid
CSCve67523	VOD UDP sessions corruption

Resolved Caveats Cisco IOS XE Everest 16.6.2

Caveat ID Number	Description
CSCux11278	RAPTOR_ESI_PCIE_LO_INTERRUPT: LOCAL RAPTOR, LOCAL PCIE IF, tx_terr_drp
CSCva21658	cbr8 - service flow state are pro for certain modems
CSCve09712	Traceback @ intr_stat_snapshot_and_process after SUPHA
CSCve11835	RPHY: Controller not be consistent with ds_prof after freq alloc failed when changing qam-profile.
CSCve28505	cdman: US-PHY PHY6 ch:1 rx intUsProcbFlow isr
CSCve65478	"%HA_CONFIG_SYNC-3-LBL_CFGSYNC: Unable to sync msg printed out when system bootup
CSCve73300	cBR8 line card reload at cmts_us_sched_flow_clear
CSCve73353	"hw-module slot r1 start" does not work.
CSCve89151	suggest command "cable primary-sflow-qos11 keep all" follw 10k implement
CSCve95162	SUP crash while copying file via tftp
CSCve98122	After LCHA and reset rpd before new sty-lc online, all rpd can't online due to gcp fail
CSCvf06562	vidman stops functioning on SSO when preceded by source switch and LCPR
CSCvf07430	CBR8 enhancements for cable nd validate feature
CSCvf09603	%CPPOSLIB-3-ERROR_NOTIFY: CLC5: fman_fp_image: traceback seen after SSO
CSCvf10149	RPHY:ALL CM get lost after LCHA using latest POLARIS image
CSCvf15809	RPHY: scheduler change for Ingress noise cancellation
CSCvf18412	OFDMA: Max-bit-rate config for CURL stuck at 400Mbps and does not reflect other changes
CSCvf20161	GQI announce message (5406/2104) not sent on switch to good source
CSCvf20348	D3.1 US: Probes with power errors should be ignored and probes should use Adjust instead of Set TLV
CSCvf21542	RPHY: Pri core stuck in GCP after switch LC delete rpd
CSCvf26114	CURL: issue found in comprehensive LCHA/LCPR/SUPHA test of Scheduler enable/disable/rate CLI
CSCvf27415	cBR8 "show harddisk: all:" command output incomplete/cut-off before displaying all files

Caveat ID Number	Description
CSCvf29141	Updates to MD-DS-SG Regenerate Freq Based Template RCCs
CSCvf30042	Standby SUP sync time longer, in "STANDBY COLD-CONFIG" state for about 13mins
CSCvf33535	PSIT:Session create configs with vei_bundle getting removed on reloading cbr-8 with inactive LED
CSCvf33795	All modems are disappeared after cdman restart in the automation
CSCvf34210	Stale mcast/dsg service flows remain after re-config DSG
CSCvf34701	16.6.1 - STB gets stuck on US4 instead of being moved by RLBG
CSCvf37844	Unexpected CRITICAL facility alarm reported for DPIC 10G ports after sup test crash
CSCvf42321	cBR: cpp crash due to DPE0_CPE_CSR32_DPE_CPE_ERR_LEAF_INT__INT_CPE_M40A_ACC_ERR
CSCvf57004	PSIT:Bulk sync failure due to PRC mismatch after changing the slot from primary to secondary
CSCvf57373	LB group ID is not assigned to CM in RLBG
CSCvf77778	DSG service flow traffic blocked after SUPHA due to mac-rewrite failure
CSCvf94912	RPHY_OOB: Bulk-sync fails for OOB profile due to frequency mismatch
CSCvf96094	Modem stuck in init(io). Some DHCP packets are encrypted when sent from CBR8 to CM
CSCvg00477	CLC crashes due to receiving GPI = 0 value from policy server
CSCvg04598	PMT is blocked after LCPR if chassis running over 13 hours
CSCvg07169	D6 Update attribute Total Bandwidth = 37901kbps is incorrect
CSCvg20973	CBR8: STB Black Screen due to Video Encryption failure