



Release Notes for Cisco Catalyst Cellular Gateways, Cisco IOS XE 17.4.x

First Published: 2020-12-18

Full Cisco Trademarks with Software License

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.

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.

All printed copies and duplicate soft copies of this document are considered uncontrolled. See the current online version for the latest version.

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

The documentation set for this product strives to use bias-free language. For purposes of this documentation set, bias-free is defined as language that does not imply discrimination based on age, disability, gender, racial identity, ethnic identity, sexual orientation, socioeconomic status, and intersectionality. Exceptions may be present in the documentation due to language that is hardcoded in the user interfaces of the product software, language used based on standards documentation, or language that is used by a referenced third-party product.

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: <https://www.cisco.com/c/en/us/about/legal/trademarks.html>. 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. (1721R)

About Cisco Catalyst Cellular Gateways

Cisco Catalyst Cellular Gateways combine the latest in cellular technology with deployment flexibility and ease of management. Cisco Catalyst Cellular Gateways connect your users and devices to trusted cloud and enterprise applications using 5G and 4G LTE Advanced Pro technologies. These gateways enable secure, scalable cellular deployments from any location using your existing infrastructure for primary or failover connectivity.

The Cisco Catalyst Cellular Gateways is deployed on the new lightweight Cisco IOS XE software. This software is customizable making it more flexible for any complex performance or functionality improvements. It offers a modular system where each module is independent and complete.

Cisco Catalyst Cellular Gateways Platforms

The Cisco Catalyst Cellular Gateways Platform include the following models:

- CG418-E (CAT18 LTE Advanced Pro)

New and Changed Hardware Features

There are no new or enhanced hardware features for this release.

New and Changed Software Features

Table 1: New Software Features

Feature	Description
Auto APN	This feature enables support to automatically select the Access Point Name (APN) information based on the operator's SIM.
Auto SIM	It is now possible for a Cellular Gateway device to detect the carrier of the inserted SIM and load the appropriate firmware.
Custom APN	This feature introduces support to configure custom Access Point Name (APN) profile values using commands.
Carrier Aggregation	Carrier aggregation is a feature that is enabled by default on the Cellular Gateway device, but this feature is not activated. For the feature to be active, it has to be at a high traffic rate. When the link capacity is reached, the bands begin to be added using carrier aggregation data pipe, which enhances the device's performance by twice as much.

Feature	Description
Dual SIM	The Cellular Gateway device supports dual SIM functionality, but only one SIM can be active at a time.
DM Logging	This feature helps to capture modem logging to troubleshoot 4G data connectivity or performance issues.
Dual SIM Failover	This feature introduces the ability to failover to a secondary SIM in case of loss of connectivity to an active SIM.
Firmware Upgrade	This functionality introduces support to upload and upgrade firmware on the Cellular Gateway device. Modem firmware downgrade is not supported.
IP passthrough	This feature provides WAN connectivity to the host router by passing the IPv4 or IPv6 address received from the service provider to a host router attached to the Cellular Gateway device.
IP Source Address Violation	This feature enables dropping of any outbound traffic where the source address is not the same as the address which was originally offered from the service provider.

Resolved Bugs in Cisco IOS XE 17.4.2

Bug ID	Description
CSCvv75572	Bad private SSH key error seen.

Open Bugs in Cisco IOS XE 17.4.2

Bug ID	Description
CSCvx19306	cwand crash on show cell 1 antenna.
CSCvy41947	Packets getting reassembled and are forwarded as it is to the Gigabit interface
CSCwb20663	File system [/var] is critically low in space.
CSCwa39336	Device cannot transfer files.
CSCvx73750	Device 5G light is blue when 4G LTE is in use.
CSCwc02660	Unable to push device template to device running.

Resolved Bugs in Cisco IOS XE 17.4.1b

Bug ID	Description
CSCvw49484	Throughput achieved differs between runs and IXIA readings also misleading compared to device stat.

Open Bugs in Cisco IOS XE 17.4.1b

Bug ID	Description
CSCvx73750	Device 5G light is blue when 4G LTE is in use.
CSCvv75572	Bad private SSH key error seen.
CSCvx19306	cwand crash on show cell 1 antenna.
CSCvy41947	Packets getting reassembled and are forwarded as it is to the Gigabit interface.
CSCwb20663	File system [/var] is critically low in space.

Resolved Bugs in Cisco IOS XE 17.4.1a

There are no resolved bugs for this release.

Open Bugs in Cisco IOS XE 17.4.1a

Bug ID	Description
CSCvx19306	cwand crash on show cell 1 antenna.
CSCvy41947	Packets getting reassembled and are forwarded as it is to the Gigabit interface.
CSCwb20663	File system [/var] is critically low in space.
CSCvv75572	Bad private SSH key error seen.
CSCvx73750	Device 5G light is blue when 4G LTE is in use.
CSCvw49484	Throughput achieved differs between runs and IXIA readings also misleading compared to device stat.

Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at [Cisco Profile Manager](#).
- To get the business impact you're looking for with the technologies that matter, visit [Cisco Services](#).
- To submit a service request, visit [Cisco Support](#).
- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit [Cisco Marketplace](#).
- To obtain general networking, training, and certification titles, visit [Cisco Press](#).
- To find warranty information for a specific product or product family, access [Cisco Warranty Finder](#).

Cisco Bug Search Tool

[Cisco Bug Search Tool](#) (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.

Documentation Feedback

To provide feedback about Cisco technical documentation, use the feedback form available in the right pane of every online document.

Troubleshooting

For the most up-to-date, detailed troubleshooting information, see the Cisco TAC website at <https://www.cisco.com/en/US/support/index.html>.

Go to **Products by Category** and choose your product from the list, or enter the name of your product. Look under **Troubleshoot and Alerts** to find information for the issue that you are experiencing.