



Release Notes for Cisco IOS XG Release 17.6.1.0

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These release notes include important information about Cisco IOS XG Release 17.6.1.0 and address any limitations, restrictions, and caveats that apply to the release. This release supports the following three Cisco IoT Gateways:

- Cisco IG21 IoT Gateway
- Cisco IG21R Rugged IoT Gateway
- Cisco IG31R Rugged IoT Gateway

Note: 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 RFP documentation, or language that is used by a referenced third-party product.

- If you are installing a new Cisco IG21, Cisco IG21R or Cisco IG31R Gateway check the Cisco software release label on the rear panel of your gateway.
- If your Gateway is on:
 - Verify that the Cloud LED is solid green to confirm that the Gateway is on-boarded to IOTD Cloud.
 - Log in to the IOTD Cloud and go to the inventory list that displays the Product ID, Serial Number and the currently running software version.
 - Refer to documentation on the Software upgrade steps in IOTD.
- If you are upgrading to a new release, see the software upgrade filename for the software version. See [Upgrading the Software, page 7](#).

Organization

This document includes the following sections:

Conventions, page 2	Conventions used in this document.
New Features in Cisco IOS XG Release 17.6.1.0, page 3	Provides a summary of features supported in Cisco IOS XG Release 17.6.1.0.
Upgrading the Software, page 7	Summarizes the hardware and software requirements for the IoT Gateway platform.
Caveats, page 7	Summarizes Open caveats in Cisco IOS XG Release 17.6.1.0.
Documentation Updates	Provides a summary of any content changes to User Documentation or Online Help.

Conventions

This document uses the following conventions.

Conventions	Indication
bold font	Commands and keywords and user-entered text appear in bold font .
<i>italic font</i>	Document titles, new or emphasized terms, and arguments for which you supply values are in <i>italic font</i> .
[]	Elements in square brackets are optional.
{x y z }	Required alternative keywords are grouped in braces and separated by vertical bars.
[x y z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
courier font	Terminal sessions and information the system displays appear in <code>courier font</code> .
< >	Nonprinting characters such as passwords are in angle brackets.
[]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

Note: Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.

Caution: Means *reader be careful*. In this situation, you might perform an action that could result in equipment damage or loss of data.

Warning: IMPORTANT SAFETY INSTRUCTIONS

Means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. Use the statement number provided at the end of each warning to locate its translation in the translated safety warnings that accompanied this device.

SAVE THESE INSTRUCTIONS

Regulatory: Provided for additional information and to comply with regulatory and customer requirements.

New Features in Cisco IOS XG Release 17.6.1.0

[Table 1](#) lists new features added in Cisco IOS XG Release 17.6.1.0.

Table 1 New Feature Summary for Cisco IOS XG Release 17.6.1.0

Feature	Description	Related Documentation
<p>Cisco IoT Gateway and Cisco Rugged IoT Gateways</p>	<p>This release supports the following three platforms that are designed to connect smart devices and sensors to a network or cloud application:</p> <ul style="list-style-type: none"> ■ Cisco IG21 IoT Gateway ■ Cisco IG21R Rugged IoT Gateway ■ Cisco IG31R Rugged IoT Gateway <p>These hardware gateways are designed to connect low cost assets and provide networking as well as:</p> <ul style="list-style-type: none"> – Provide IoTD (cloud hosting) for cloud-based management of the gateway – End-to-end security for the sensors, gateways and cloud – Zero-touch onboarding and Day Zero provisioning of the gateway from the cloud – Click-based data path for data features like NAT, VPN and IP forwarding – Minimal application hosting for managing connected devices and sensors <p>Note: For details on supported antennas, refer to the IG21 IoT Gateway, IG21R Rugged IoT Gateway and IG31R Rugged IoT Gateway Hardware Installation Guide noted in Related Documentation.</p>	<p>Cisco IG21 IoT Gateway, Cisco IG21R Rugged IoT Gateway, and Cisco IG31R Rugged IoT Gateway Hardware Installation Guide</p>
<p>Events and Syslog</p>	<p>Cisco IoT Gateways (IG21, IG21R, IG31R) generate event notifications to IOTD dashboard on various events on the platform, such as:</p> <ul style="list-style-type: none"> - Software upgrade event - Cellular firmware upgrade event - Ethernet and Wi-Fi events - Cellular link events - System events <p>The platform generates syslog and tech support data that can be uploaded from IOTD for analysis.</p>	<p>Cisco IG21 IoT Gateway, Cisco IG21R Rugged IoT Gateway, and Cisco IG31R Rugged IoT Gateway Hardware Installation Guide</p>

Table 1 New Feature Summary for Cisco IOS XG Release 17.6.1.0

Feature	Description	Related Documentation
LED support: Cisco IoT Gateways	<p>Cisco IoT Gateways (IG21, IG21R, IG31R) systems support three LEDs to show the current, live status of the devices:</p> <ul style="list-style-type: none"> - Cloud LED - Cellular LED - System LED 	<p>Cisco IG21 IoT Gateway, Cisco IG21R Rugged IoT Gateway, and Cisco IG31R Rugged IoT Gateway Hardware Installation Guide</p>
LED Support: IoT Gateways	<p>Cisco IoT Gateways support the four LEDs noted below. These LEDs are visible in the IOTD dashboard for the IG Gateways.</p> <ul style="list-style-type: none"> - System LED: Provides status information during the system boot up process - Gigabit Ethernet WAN and LAN port LEDs: Indicates the following states for the two vertical ports: <ul style="list-style-type: none"> ■ Port 1 (WAN, top port) <ul style="list-style-type: none"> - Off: Device is not connected to the WAN. - Solid green: Device is connected to the WAN. - Flashing green: Device is transmitting or receiving network traffic. ■ Port 2 (LAN, bottom port) <ul style="list-style-type: none"> - Off: Device is not connected to the LAN - Solid green: Device is connected to the LAN - Flashing green: Device is transmitting or receiving network traffic. 	<p>Cisco IG21 IoT Gateway, Cisco IG21R Rugged IoT Gateway, and Cisco IG31R Rugged IoT Gateway Hardware Installation Guide</p> <p>See Cisco IG21, IG21R and IG31R IoT Gateway Panels in the guide noted above for more information.</p>
Ethernet Fallback	<p>Supports fallback to an alternate WAN link (Ethernet) while on-boarding.</p> <p>Note: No active fallback is allowed when on a cellular link or after you complete onboarding of the device.</p> <p>This feature is supported on all IG31R Rugged IoT Gateways.</p>	<p>Cisco IG21 IoT Gateways, Cisco IG21R Rugged IoT Gateways, and Cisco IG31R Rugged IoT Gateway Hardware Installation Guide</p>
Secure Boot and Image Signing	<p>Device supports secure boot. Only the Cisco signed image is allowed to run on the device.</p> <p>This feature is supported on all IG Gateways and Rugged Gateways.</p>	<p>Cisco IG21 IoT Gateways, Cisco IG21R Rugged IoT Gateways, and Cisco IG31R Rugged IoT Gateways Hardware Installation Guide</p>

Before You Begin Testing

Before You Begin Testing

- Set up a Cisco Smart Account if not already established. It will allow you to manage the licenses of the IG.
- Set up the Cisco IoT Operations Dashboard credentials that allow you to log on to IG21, IG21R and IG31R.

Upgrading the Software

All Cisco IOS XG software upgrades are handled by the Cisco IoT Operations Dashboard. Please refer to the software upgrade workflow within the Cisco IoT Operations Dashboard documentation.

Table 2 Cisco IOS XG Software Image File

File Name	Description
Cisco IOS XG Release 17.6.1.0	Provides support for Cisco IG21, IG21R and IG31R IoT Gateway

Caveats

- [Cisco Bug Search Tool, page 7](#)
- [Open Caveats, page 8](#)

Cisco Bug Search Tool

The Bug Search Tool (BST), which is the online successor to Bug Toolkit, is designed to improve the effectiveness in network risk management and device troubleshooting. The BST allows partners and customers to search for software bugs based on product, release, and keyword, and aggregates key data such as bug details, product, and version. The tool has a provision to filter bugs based on credentials to provide external and internal bug views for the search input.

To view the details of a caveat listed in this document:

1. Access the BST (use your Cisco user ID and password) at <https://tools.cisco.com/bugsearch/>.
2. Enter the bug ID in the Search For: field.

Caveats

Open Caveats

Table 3 Open Caveats in Cisco IOS XG Release 17.6.1.0

Bug ID	Headline
CSCvx32820	Enable user defined local-id for IPSEEC tunnel.
CSCvy35175	Allows 500 and 4500 port traffic to passthrough Gateway (GW).
CSCvz85258	Wi-Fi Failure Events on IOTD Dashboard.
CSCvz97234	IG: PAT not working when public/private ports are different.
CSCwa06333	Same version is updating IOTD events log while doing IOTD software update.
CSCwa30087	IG: DHCP client not getting IP address on Gi 0/0.
CSCwa42480	A-GPS (Assisted GPS) coordinates are incorrectly showing in the OD.
CSCwa51851	Default dhcp pool conflict with the gig 0/0 wan ip subnet.
CSCwa56767	Configuration not deleted in IG device after deleting the config on OD.
CSCwa57772	DHCP: configured dhcp options are not seen in the offer packet.
CSCwa67992	IG: connected client recent ssid not updating on connecting with a different ssid.
CSCwa84697	Prod Cluster: Device (iiot_gateway_iosxg) stuck in configuring state while onboarding.

No combinations are authorized or intended under this document.
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