



# Release Notes for Cisco 1100 Terminal Services Gateway

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## About Cisco 1100 Terminal Services Gateway

Cisco 1100 Terminal Services Gateway are terminal servers that provides asynchronous connections to the console ports for Cisco devices.

**Table 1: Base Models of the Cisco 1100 Terminal Services Gateway**

Base Models	Asynchronous Ports	NIM Slot	Switch	Memory
C1100TG-1N32A	32	Yes	None	2GB Dram/ 4GB flash
C1100TG-1N24P32A	32	Yes	24 port L2 Switch	4GB Dram/ 4GB flash
C1100TGX-1N24P32A	32	Yes	24 port L2 Switch	8GB Dram/ 8GB flash



**Note** Starting with Cisco IOS XE Amsterdam 17.3.2, with the introduction of Smart Licensing Using Policy, even if you configure a hostname for a product instance or device, only the Unique Device Identifier (UDI) is displayed. This change in the display can be observed in all licensing utilities and user interfaces where the hostname was displayed in earlier releases. It does not affect any licensing functionality. There is no workaround for this limitation.

The licensing utilities and user interfaces that are affected by this limitation include only the following:

- Cisco Smart Software Manager (CSSM),
- Cisco Smart License Utility (CSLU), and
- Smart Software Manager On-Prem (SSM On-Prem).

## Product Field Notice

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## New and Enhanced Hardware and Software Features

### New and Changed Hardware Features

*Table 2: New Hardware Features*

Feature	Description
Cisco 1100 Terminal Services Gateway	The Cisco 1100 Terminal Services Gateway are based on Cisco IOS XE Amsterdam 17.2 release, multi-core data plane and 4 core CPU. The Cisco 1100 Terminal Services Gateway are in two platform series. The base model has a 32 async ports with 2 GB memory, the plus model has 32 ports, 24 L2 switch and 4GB or 8GB memory to support programmability features. A 16 port async ports daughter card is available to extend onboard async ports to 48 for both these platforms.

### New and Changed Software Features

#### New and Changed Software Features in Cisco IOS XE 17.14.1a

*Table 3: New Software Features*

Feature	Description
<a href="#">NIM-VAB-A Support</a>	From Cisco IOS XE 17.14.1a, this feature extends NIM-VAB-A support to Cisco 1100 Terminal Services Gateway. NIM-VAB-A is a Cisco Multimode VDSL2 and ADSL2/2+ NIM that provides single-port multimode VDSL2 and ADSL2/2+ WAN connectivity.

#### New and Changed Software Features in Cisco IOS XE 17.13.1a

*Table 4: New Software Features*

Feature	Description
<a href="#">Proxy Mobile IPv6 Support for MAG Functionality.</a>	From Cisco IOS XE 17.13.1a, Mobile Access Gateway (MAG) support has been enabled on C1100 Terminal Gateway platform.
<a href="#">Support for Security-Enhanced Linux</a>	SELinux (Security-Enhanced Linux) is a solution designed to incorporate a strong, flexible mandatory access control (MAC) architecture into Cisco IOS XE platforms. From Cisco IOS XE 17.13.1a, SELinux is enabled by default in Enforcing mode for Cisco IOS XE platforms.

#### New and Changed Software Features in Cisco IOS XE 17.12.2

This release provides a fix for [CSCwh87343](#): Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see the Security Advisory: [cisco-sa-iosxe-webui-privesc-j22SaA4z](#).

Table 5: New Software Features

Feature	Description
<a href="#">Cisco Managed Cellular Activation (eSIM)</a>	<p>The Managed Cellular Activation solution provides a programmable subscriber identity module (SIM), called an eSIM, a physical SIM card that you can configure with a cellular service plan of your choice. When ordering a pluggable interface module (PIM) to provide cellular connectivity for your router, choose a PIM model with a preinstalled eSIM. The Managed Cellular Activation solution comes with a “bootstrap” cellular plan to provide internet connectivity with a limited amount of data intended only for Day 0 onboarding of the device to your cellular plan. For information about configuring Cisco SD-WAN Manager with the details of your cellular plan in preparation for onboarding the device, see the <a href="#">Cisco Managed Cellular Activation Configuration Guide</a>. Prepare the configuration in Cisco SD-WAN Manager before powering on and onboarding the device, to avoid running out of the limited data in the bootstrap cellular plan.</p> <p>Added Cisco Managed Cellular Activation (eSIM) support for the following Pluggable Interface Module (PIM) model:</p> <ul style="list-style-type: none"> <li>• 5G Sub-6 GHz PIM, model P-5GS6-R16-GL</li> </ul> <p><b>Note</b> In this context, eSIM refers to a removable SIM pre-installed by Cisco. In other contexts, eSIM can refer to a non-removable SIM embedded in a cellular-enabled device.</p>

## New and Changed Software Features in Cisco IOS XE 17.12.1a

Table 6: New Software Features

Feature	Description
<a href="#">Support for C-NIM-2T on C1100TGX-1N24P32A</a>	This feature extends C-NIM-2T support to C1100TGX-1N24P32A of the Cisco 1100 Series Terminal Services Gateway. C-NIM-2T is a dual combo port module with two RJ-45 copper line ports and two SFP fiber ports. This NIM module supports MACsec 128/256-bit encryption.

## New and Changed Software Features in Cisco IOS XE 17.9.5a

There are no new features in this release.

## New and Changed Software Features in Cisco IOS XE 17.9.4a

There are no new features in this release. This release provides a fix for [CSCwh87343](#): Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see the Security Advisory: [cisco-sa-iosxe-webui-privesc-j22SaA4z](#).

## New and Changed Software Features in Cisco IOS XE 17.9.1a

Table 7: New Software Features

Feature	Description
New mechanism to send data privacy related information	<p>A new mechanism to send data privacy related information was introduced. This information is no longer included in a RUM report.</p> <p>If data privacy is disabled (<b>no license smart privacy {all hostname version}</b> command in global configuration mode), data privacy related information is sent in a separate sync message or offline file.</p> <p>Depending on the topology you have implemented, the product instance initiates the sending of this information in a separate message, or CSLU and SSM On-Prem initiates the retrieval of this information from the product instance, or this information is saved in an offline file. For more information, see <a href="#">license smart (global config)</a>.</p>
Hostname support	<p>Support for sending hostname information was introduced. If you configure a hostname on the product instance and disable the corresponding privacy setting (<b>no license smart privacy hostname</b> command in global configuration mode), hostname information is sent from the product instance, in a separate sync message or offline file.</p> <p>Depending on the topology you have implemented, the hostname information is received by CSSM, CSLU, and SSM On-Prem. It is then displayed on the corresponding user interface. For more information, see <a href="#">license smart (global config)</a>.</p> <p>With the introduction of this enhancement, the hostname limitation which existed from Cisco IOS XE Amsterdam 17.3.2 to Cisco IOS XE Cupertino 17.8.x – is removed. In these earlier releases, hostname information is not sent or displayed on various licensing utilities (CSSM, CSLU, and SSM On-Prem).</p>

Feature	Description
RUM Report Throttling	<p>For all topologies where the product instance initiates communication, the minimum reporting frequency is throttled to one day. This means the product instance does not send more than one RUM report a day.</p> <p>The affected topologies are: <i>Connected Directly to CSSM</i>, <i>Connected to CSSM Through CSLU</i> (product instance-initiated communication), <i>CSLU Disconnected from CSSM</i> (product instance-initiated communication), and <i>SSM On-Prem Deployment</i> (product instance-initiated communication).</p> <p>This resolves the problem of too many RUM reports being generated and sent for certain licenses. It also resolves the memory-related issues and system slow-down that was caused by an excessive generation of RUM reports.</p> <p>You can override the reporting frequency throttling, by entering the <b>license smart sync</b> command in privileged EXEC mode. This triggers an on-demand synchronization with CSSM or CSLU, or SSM On-Prem, to send and receive any pending data.</p> <p>RUM report throttling also applies to the Cisco IOS XE Amsterdam 17.3.6 and later releases of the 17.3.x train, and Cisco IOS XE Bengaluru 17.6.4 and later releases of the 17.6.x train. From Cisco IOS XE Cupertino 17.9.1, RUM report throttling is applicable to <i>all</i> subsequent releases.</p>
Virtual Routing and Forwarding (VRF) Support	<p>On a product instance where VRF is supported, you can configure the <b>license smart vrf vrf_string</b> command and use a VRF to send licensing data to CSSM, or CSLU, or SSM On-Prem. For more information, see <a href="#">license smart (global config)</a></p> <p><b>Note</b> When using a VRF, the supported transport types are <b>smart</b> and <b>cslu</b> only.</p>

## New and Changed Software Features in Cisco IOS XE 17.8.1a

**Table 8: New Software Features**

Feature	Description
<a href="#">Booster Performance license</a>	<p>The Booster Performance license enables unthrottled throughput (for unencrypted traffic). Without it, throughput for unencrypted traffic is restricted to 500 Mbps.</p> <p>To enable the license, enter the <b>platform hardware throughput level boost</b> command in global configuration mode.</p>
Support for X.25 protocol on Cisco 1100 Terminal Services Gateway	<p>The X.25 protocol is now supported on Cisco 1100 Terminal Services Gateway. X.25 is the ITU-T standard that defines connections maintained between Data Terminal Equipment (DTE) and Data Circuit-terminating Equipment (DCE) for remote terminal access and computer communications.</p>

### New and Changed Software Features in Cisco IOS XE 17.6.6a

There are no new features in this release. This release provides a fix for [CSCwh87343](#): Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see the Security Advisory: [cisco-sa-iosxe-webui-privesc-j22SaA4z](#).

### New and Changed Software Features in Cisco IOS XE 17.6.5a

There are no new features in this release. This release provides a fix for [CSCwh87343](#): Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see the Security Advisory: [cisco-sa-iosxe-webui-privesc-j22SaA4z](#).

### New and Changed Software Features in Cisco IOS XE 17.4.1

**Table 9: New Software Features**

Feature	Description
<a href="#">Smart Software Manager On-Prem (SSM On-Prem) Support for Smart Licensing Using Policy:</a>	<p>SSM On-Prem is an asset manager, which works in conjunction with CSSM. It enables you to administer products and licenses on your premises instead of having to directly connect to CSSM.</p> <p>Here, a product instance is connected to SSM On-Prem, and SSM On-Prem becomes the single point of interface with CSSM. The product instance can be configured to <i>push</i> the required information to SSM On-Prem. Alternatively, SSM On-Prem can be set-up to <i>pull</i> the required information from a product instance at a configurable frequency. After usage information is available in SSM On-Prem, you must synchronize the same with CSSM, to ensure that the product instance count, license count and license usage information is the same on both, CSSM and SSM On-Prem. Offline and online options are available for synchronization between CSSM and SSM On-Prem.</p> <ul style="list-style-type: none"> <li>• Minimum Required SSM On-Prem Version: Version 8, Release 202102</li> <li>• Minimum Required Cisco IOS XE Version: Cisco IOS XE Amsterdam 17.3.3. (If a product was first introduced in a later release, that release becomes the minimum required IOS-XE version for the product.)</li> </ul>
Support for Synchronous Serial NIMs	<p>From Cisco IOS XE Bengaluru 17.4.1, the following Synchronous Serial NIMs are supported on Cisco 1100 Series Terminal Services Gateway:</p> <ul style="list-style-type: none"> <li>• Cisco 1-Port Serial WAN Network Interface Card (NIM-1T)</li> <li>• Cisco 2-Port Serial WAN Network Interface Card (NIM-2T)</li> <li>• Cisco 4-Port Serial WAN Network Interface Card (NIM-4T)</li> </ul>

Feature	Description
Support for Cisco T1/E1 NIM	<p>This feature extends support for the following Cisco T1/E1 NIM modules in data mode:</p> <ul style="list-style-type: none"> <li>• NIM-1MFT-T1/E1</li> <li>• NIM-2MFT-T1/E1</li> <li>• NIM-4MFT-T1/E1</li> <li>• NIM-8MFT-T1/E1</li> <li>• NIM-1CE1T1-PRI</li> <li>• NIM-2CE1T1-PRI</li> <li>• NIM-8CE1T1-PRI</li> </ul> <p>The Cisco T1/E1 NIM module does not support TDM subdivision and analog services.</p>
Support for Smart Licensing	<p>Cisco DNA Center supports Smart Licensing Using Policy functionality starting with Cisco DNA Center Release 2.2.2. The corresponding minimum required Cisco IOS XE Release for this platform is Cisco IOS XE Bengaluru 17.4.1.</p> <p>Implement the “Connected to CSSM Through a Controller” topology to have Cisco DNA Center manage a product instance. When you do, the product instance records license usage, but it is the Cisco DNA Center that initiates communication with the product instance to retrieve and report usage to Cisco Smart Software Manager (CSSM), and returns the acknowledgement (RUM ACK).</p> <p>In order to meet reporting requirements, Cisco DNA Center provides ad hoc or on-demand reporting, as well as scheduled reporting options.</p> <p><b>Note</b> Cisco DNA Center also provides workflows for the installation and removal of the Smart Licensing Authorization Code (SLAC) for a product instance, if applicable.</p> <p>On the Cisco DNA Center GUI, you can generate a SLAC <i>only</i> for HSECK9 licenses, and <i>only</i> for certain product instances. See the <a href="#">configuration guide</a> for details.</p>

### New and Changed Software Features in Cisco IOS XE 17.3.8a

There are no new features in this release. This release provides a fix for [CSCwh87343](#): Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see the Security Advisory: [cisco-sa-iosxe-webui-privesc-j22SaA4z](#).

### New and Changed Software Features in Cisco IOS XE 17.3.8

There are no new software features in this release.

### New and Changed Software Features in Cisco IOS XE 17.3.7

There are no new software features in this release.



**New and Changed Software Features in Cisco IOS XE 17.3.6**

There are no new software features in this release.

**New and Changed Software Features in Cisco IOS XE 17.3.5**

There are no new software features in this release.

**New and Changed Software Features in Cisco IOS XE 17.3.4**

There are no new software features in this release.

**New and Changed Software Features in Cisco IOS XE 17.3.3**

There are no new software features in this release.

**New and Changed Software Features in Cisco IOS XE 17.3.2**

There are no new software features in this release.

**New and Changed Software Features in Cisco IOS XE 17.2**

The following are the new features in Cisco 1100 Terminal Services Gateway in the 17.2 release:

- IPv4 & IPv6 forwarding
- IP Routing (OSPF, EIGRP, BGP)
- IP/GRE tunneling, IPv4-to-IPv6 tunneling
- VRF lite
- PBR
- MPLS
- Multicast
- Flexible Netflow
- QoS/MQC
- NBAR
- Routed IEEE 802.1q VLANs
- FHRPs (VRRP/HSRP/GLBP)
- HQoS
- RADIUS, TACACS+, AAA

The following are the new security features in Cisco 1100 Terminal Services Gateway in the 17.2 release:

- ACL (L3/L4)
- FW (L4/L7)
- NAT
- IPSec

- DMVPN
- Router security – Akido secure boot, Code Signing, and CSL

## Resolved and Open Bugs

### Resolved Bugs in Cisco IOS XE 17.15.1a

*Table 10: Resolved Bugs in Cisco IOS XE 17.15.1a*

Bug ID	Description
<a href="#">CSCwj51700</a>	CPP crashes after re-configuring "ip nat settings pap limit ... bpa" feature in high QFP state.
<a href="#">CSCwk33173</a>	EzPM application-performance profile cause memory leak and crash with long-lived idle TCP flows.
<a href="#">CSCwk45165</a>	finan_fp Memory Leak on router.
<a href="#">CSCwj84949</a>	Unencrypted Traffic Due to Non-Functional IPsec Tunnel in FLEXVPN Hub & Spoke Setup.
<a href="#">CSCwk31715</a>	After deleting a NAT configuration, the IP address still shows up in routing table.
<a href="#">CSCwk12524</a>	Device reloaded due to ezManage mobile app Service.
<a href="#">CSCwk44078</a>	GETVPN / Migrating to new KEK RSA key doesn't trigger GM re-registration.
<a href="#">CSCwk22942</a>	Unable to build two IPsec SAs w/same source/destination where one peer is PAT'd through the other.
<a href="#">CSCwk59367</a>	IOX helper files missing in the routing platform.

### Open Bugs in Cisco IOS XE 17.15.1a

*Table 11: Open Bugs in Cisco IOS XE 17.15.1a*

Bug ID	Description
<a href="#">CSCwk49806</a>	Router running IOS 17.06.05 rebooted unexpectedly due to process NHRP crash.
<a href="#">CSCwi87546</a>	Unexpectedly reboot due to QFP CPP stuck at waiting for rw_lock - Lock id of 0 released.
<a href="#">CSCwk61238</a>	RRI static not populating route after reload if stateful IPsec is configured.
<a href="#">CSCwk98578</a>	GETVPN IPv6 crypto map not shown in interface configuration.
<a href="#">CSCwk70630</a>	17.12.02 Cannot import device certificate.
<a href="#">CSCwk81360</a>	Cisco IOS-XE Router can reboot unexpectedly while configuring NAT Static Translation.

Bug ID	Description
<a href="#">CSCwk63722</a>	Startup Configuration Failure Post PKI Server Enablement.
<a href="#">CSCwk90014</a>	NAT DIA traffic getting dropped due to port allocation failure.
<a href="#">CSCwm12851</a>	IOS-XE 17.12.3 uses 3DES as default rekey algorithm for GETVPN.

## Resolved Bugs in Cisco IOS XE 17.14.1a

*Table 12: Resolved Bugs in Cisco IOS XE 17.14.1a*

Bug ID	Description
<a href="#">CSCwh94906</a>	Device segmentation fault crash with Network Mobility Services Protocol (NMSP) .
<a href="#">CSCwi61369</a>	Router may unexpectedly reload due to SIGABRT.
<a href="#">CSCwi40603</a>	Memory leak in the Crypto IKMP process .
<a href="#">CSCwb25507</a>	CWMP : Add vendor specific parameter for NBAR protocol pack version.
<a href="#">CSCwi82548</a>	Crash in IKEv2 Cluster Load Balancer.
<a href="#">CSCwi85293</a>	IKEv2 IPv6 Cluster Load balance: Secondary in cluster unable to connect to cluster in case of FVRF.
<a href="#">CSCwi16111</a>	IPv6 tcp adjust-mss not working after delete and reconfigure.

## Open Bugs in Cisco IOS XE 17.14.1a

*Table 13: Open Bugs in Cisco IOS XE 17.14.1a*

Bug ID	Description
<a href="#">CSCwj09284</a>	Unexpected reboot in WLC due to SSL.
<a href="#">CSCwj48393</a>	ISG: Service with no priority are not working as expected.
<a href="#">CSCwj48421</a>	%CRYPTO-4-RECVD_PKT_INV_SPI: decaps: rec'd IPSEC packet has invalid spi.
<a href="#">CSCwj43905</a>	Unexpected Reboot Due to QFP-Ucode-Radium Failure.
<a href="#">CSCwj34578</a>	NAT46 translations are dropped when NAT64 router is also Carrier Supporting Carrier CE.
<a href="#">CSCwj30334</a>	CVLA ucode crash when attempting merge on used block.
<a href="#">CSCwj13681</a>	Device can only store 64 FQDN patterns, but config accepts more than 64.

## Resolved Bugs in Cisco IOS XE 17.13.1a

*Table 14: Resolved Bugs in Cisco IOS XE 17.13.1a*

Bug ID	Description
<a href="#">CSCwh10813</a>	Add verbose log to indicate grant ra-auto un configures grant auto in PKI server.
<a href="#">CSCwf25735</a>	Device QoS more than four remark with set-cos not work.
<a href="#">CSCwfl4607</a>	Crash observed exporting PKCS12 to terminal via SSH CLI.

## Open Bugs in Cisco IOS XE 17.13.1a

*Table 15: Open Bugs in Cisco IOS XE 17.13.1a*

Bug ID	Description
<a href="#">CSCwh94906</a>	Router WLC segmentation fault crash with Network Mobility Services Protocol (NMSP).
<a href="#">CSCwi00369</a>	Device lost security parameter after upgrade.
<a href="#">CSCwi06843</a>	Endpoint tracker triggers a CPU Hog.
<a href="#">CSCwi16015</a>	[SIT]: SSE tunnels don't come up with Dialer interface.R relax check in IKE.
<a href="#">CSCwi13563</a>	IP SLA probe for End-point-tracker doesnt work once endpoint tracker is changed until reload.
<a href="#">CSCwi06404</a>	Router PKI related crash after failing a CRL Fetch.
<a href="#">CSCwi14178</a>	Failed to connect to device : x.x.x.x Port: 830 user : vmanage-admin error : Connection failed.
<a href="#">CSCwi23562</a>	When RADIUS down, and there is an IKE-AUTH request received, the box stops replying to DPD packets.
<a href="#">CSCwh65016</a>	Unexpected Reboots on Cedge Due to QFP Exception.
<a href="#">CSCwi08171</a>	Router may crash due to Crypto IKMP Process.
<a href="#">CSCwi05395</a>	SNMP bulkget cannot get loss, latency and jitter for Probe Class Table & Class Interval Table OIDs
<a href="#">CSCwh84068</a>	Router crash after changing NAT HSL configuration.
<a href="#">CSCwi15688</a>	Unexpected NAT translation occurs in a specific network.
<a href="#">CSCwi19875</a>	Decice is unable to process hidden characters in a file while trying to use bootstrap method.
<a href="#">CSCwh91136</a>	IOS XE: Traffic not encrypted and dropped over IPSEC SVTI tunnel.

Bug ID	Description
<a href="#">CSCwi11807</a>	SNMP bulk get breaks the OID 'appRouteStatisticsTable' after minute Not returning the correct order.
<a href="#">CSCwi35177</a>	Router crash caused by continuous interface flap, interface associated to many ipsec interfaces.
<a href="#">CSCwi30529</a>	AAA: Template push fail when aaa authorization is set to local.
<a href="#">CSCwh52440</a>	IP SLA doesnt have checks for ICMP probes to be sent on source interface.

## Resolved Bugs in Cisco IOS XE 17.12.4

*Table 16: Resolved Bugs in Cisco IOS XE 17.12.4*

Bug ID	Description
<a href="#">CSCwh86053</a>	ENH: Config Parser Issue for NAT with Extendable and Redundancy.
<a href="#">CSCwj38106</a>	Only one split-exclude subnet is pushed to client PC with IOS-XE headend for a RA VPN connection.
<a href="#">CSCwj36915</a>	Device macsec not working under LACP port-channel member port.
<a href="#">CSCwj45130</a>	Segmentation Fault - Process = IPsec dummy packet process.
<a href="#">CSCwi68865</a>	Memory leak in Crypto IKEv2 due to C_NewObject.
<a href="#">CSCwj09284</a>	Unexpected reboot in WLC due to SSL.
<a href="#">CSCwj88872</a>	IPsec tunnel fails to establish due to error IPsec policy invalidated proposal.
<a href="#">CSCwh01095</a>	Rapid memory leak on "ngiolite" process.
<a href="#">CSCwj70335</a>	Crypto IKEv2 - Fragmented Authentication packets detected as malformed on 3rd party vendor device
<a href="#">CSCwj33292</a>	AnyConnect connection trough IPsec fails when connecting from an RDP user to an IOS/IOS-XE headend.
<a href="#">CSCwj44868</a>	GETVPN COOP KS   Wrong Severity for Rekey Acknowledgement configuration mismatch log message.
<a href="#">CSCwi40603</a>	Memory leak in the Crypto IKMP process .
<a href="#">CSCwh73320</a>	NAT Pool doesn't working under prefix 16. Available address = zero.
<a href="#">CSCwi82405</a>	mGRE Tunnels with shared ipsec profile cause ucode crash.
<a href="#">CSCwi16111</a>	IPv6 tcp adjust-mss not working after delete and reconfigure.
<a href="#">CSCwj29947</a>	AAA authorization failure during IKEv2 phase negotiation caused unexpected reboot.
<a href="#">CSCwj72888</a>	Reload in tcp_sanity due to l4 pointer not set.

Bug ID	Description
<a href="#">CSCwj34578</a>	NAT46 translations are dropped when NAT64 router is also Carrier Supporting Carrier CE.
<a href="#">CSCwi55183</a>	"crypto pki certificate pool" in Running Configuration.
<a href="#">CSCwk15127</a>	Failure to communicate a period of time after the stp status changes.
<a href="#">CSCwf87975</a>	Router crashed when port-channel interface flap with scale of per-tunnel qos policies.

## Open Bugs in Cisco IOS XE 17.12.4

*Table 17: Open Bugs in Cisco IOS XE 17.12.4*

Bug ID	Description
<a href="#">CSCwk31560</a>	NAT Command not readable after reloaded.
<a href="#">CSCwk31715</a>	After deleting a NAT configuration, the IP address still shows up in routing table.
<a href="#">CSCwh45389</a>	Key manager crash after hostname change with usage keys.
<a href="#">CSCwk44078</a>	GETVPN / Migrating to new KEK RSA key doesn't trigger GM re-registration.
<a href="#">CSCwk63722</a>	Startup Configuration Failure Post PKI Server Enablement.
<a href="#">CSCwk58303</a>	Watchdog crash during IPv6 cef adjacency routines.
<a href="#">CSCwf91481</a>	IR1835 crashed unexpectedly after a successful WGB/AP config deployment from OD.
<a href="#">CSCwk30527</a>	IKEv2 session is down after reload if identity local address is assigned to interface on Switch.
<a href="#">CSCwj84949</a>	Unencrypted Traffic Due to Non-Functional IPsec Tunnel in FLEXVPN Hub & Spoke Setup.
<a href="#">CSCwh91136</a>	IOS XE:Traffic not encrypted and dropped over IPSEC SVTI tunnel
<a href="#">CSCwk22942</a>	Unable to build two IPSec SAs w/same source/destination where one peer is PAT'd through the other.
<a href="#">CSCwi31110</a>	Traceback seen @_nhrp_cache_delete due to negative global cache count.

## Resolved Bugs in Cisco IOS XE 17.12.3

*Table 18: Resolved Bugs in Cisco IOS XE 17.12.3*

Bug ID	Description
<a href="#">CSCwh73350</a>	Router keeps crashing when processing a firewall feature.

Bug ID	Description
<a href="#">CSCwi08171</a>	Router may crash due to Crypto IKMP Process.
<a href="#">CSCwi06404</a>	PKI crash after failing a CRL Fetch.
<a href="#">CSCwh50628</a>	Race condition crash on IOS-XE device.
<a href="#">CSCwh18120</a>	IKEv2 - diagnose feature is taking 11% CPU during session bring up.
<a href="#">CSCwh10813</a>	Add verbose log to indicate grant ra-auto un configures grant auto in PKI server.
<a href="#">CSCwh50510</a>	Router Crash with Segmentation fault (11), Process = NHRP when processing NHRP traffic.
<a href="#">CSCwi28227</a>	Router / IOS XE 17 / NAT HSL logging vrf-filter not working.
<a href="#">CSCwf86207</a>	Frame Relay DTE router crashes due to EXMEM exhaustion.
<a href="#">CSCwi25737</a>	Router should discard IKE Notification messages with incorrect DOI.
<a href="#">CSCwi55379</a>	IPsec Traffic is being dropped on Strongswan when PPK is implemented.
<a href="#">CSCwh45169</a>	Unexpected Reboot while Displaying Information from Cleared SSS Session.
<a href="#">CSCwh93257</a>	Router creates crooked NAT entry if 2 or more ip phone from nat outside register to same server.
<a href="#">CSCwi59121</a>	Device: Mobile-app causing excessive Authorization attempts with a Null Username.
<a href="#">CSCwh68508</a>	Unexpected reboot after establishing control plane of EVPN MPLS and receiving packets.
<a href="#">CSCwi63042</a>	Packet drops observe between LISP EID over GRE Tunnel.
<a href="#">CSCwh96578</a>	SKA_PUBKEY_DB leak in TDL.
<a href="#">CSCwi76087</a>	ATO : Session fails to come up with Tunnel its shut no shut in loop (cable unplug-plug in customer).
<a href="#">CSCwh96415</a>	Can't disable DMVPN logging in IOS-XE 17.8 and higher.

## Open Bugs in Cisco IOS XE 17.12.3

*Table 19: Open Bugs in Cisco IOS XE 17.12.3*

Bug ID	Description
<a href="#">CSCwj08744</a>	Unexpected reload when using "show running-config full   format".
<a href="#">CSCwi46997</a>	NAT Command not readable after reloaded.
<a href="#">CSCwi16111</a>	IPv6 tcp adjust-mss not working after delete and reconfigure.

## Resolved Bugs in Cisco IOS XE 17.12.2

All resolved bugs for this release are available in the [Cisco Bug Search Tool](#).

*Table 20: Resolved Bugs in Cisco IOS XE 17.12.2*

Bug ID	Description
<a href="#">CSCwf67564</a>	Device observes memory leak at process "SSS Manager".
<a href="#">CSCwf56463</a>	IOS process crash during VRRP hash table lookup.
<a href="#">CSCwh11858</a>	Device running IOS-XE crashes when removing FQDN ACL.
<a href="#">CSCwf99906</a>	NTP authentication removed after reload using more than 16 bytes.
<a href="#">CSCwf59173</a>	Segmentation fault at IPv6 BGP backup route notification.
<a href="#">CSCwf67351</a>	Cisco IOx application hosting environment privilege escalation vulnerability.
<a href="#">CSCwf41084</a>	Extranet multicast code improvements for better handling of data structure.
<a href="#">CSCwh04884</a>	VC down due to control-word negotiation.
<a href="#">CSCwf84960</a>	C-NIM-2T: LED L remains green after port shutdown.
<a href="#">CSCwf49390</a>	crashes@crypto_map_unlock_map_head.
<a href="#">CSCwf99947</a>	Crash when modifying tunnel after running show crypto commands.
<a href="#">CSCwh30377</a>	Data plane crash in Umbrella/OpenDNS processing due to incorrect UDP length.
<a href="#">CSCwf34171</a>	configure replace command fails due to the license udi PID XXX SN:XXXX line on IOS-XE devices.
<a href="#">CSCwh20734</a>	Crypto PKI-CRL-IO_0 process crash when PKI trustpoint is requested and deleted.
<a href="#">CSCwh20577</a>	Crashed by TRACK client thread at access invalid memory location.
<a href="#">CSCwh36801</a>	Crash in IP Input process during tunnel encapsulation.
<a href="#">CSCwh41497</a>	DDNS update retransmission timer fails to work with a traceback error.
<a href="#">CSCwf71557</a>	IPv4 connectivity over PPP not restored after reload.



Bug ID	Description
<a href="#">CSCwf51206</a>	EVPN: BUM traffic is not flooded to bridge domain interface.
<a href="#">CSCwf80191</a>	Flowspec on device will not revoke.
<a href="#">CSCwf60120</a>	Static NAT entry gets deleted from running config; but remains in startup config.
<a href="#">CSCwh00332</a>	B2B NAT: when configuration ip nat inside/outside on VASI interface, ack/seq number abnormal.
<a href="#">CSCwh08948</a>	Show platform hardware throughput crypto/ambiguous outputs.
<a href="#">CSCwh87343</a>	Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see Security Advisory: <a href="#">cisco-sa-iosxe-webui-privesc-j22SaA4z</a>

## Open Bugs in Cisco IOS XE 17.12.2

Table 21: Open Bugs in Cisco IOS XE 17.12.2

Bug ID	Description
<a href="#">CSCwh58252</a>	IPv6 SPD min/max defaulting to values 1 and 2.
<a href="#">CSCwh14083</a>	High CPU due to MPLS MIB poll.
<a href="#">CSCwh99513</a>	VPLS IRB not working when traffic came from VPNv4 and next-hop is learned over VPLS.
<a href="#">CSCwh91085</a>	Convergence improvement after device reboot with mVPN profile 14.
<a href="#">CSCuu85298</a>	FIB/LFIB inconsistency after BGP flap.
<a href="#">CSCwf83684</a>	IOS XE router may experience "%FMANRP_QOS-4-MPOLCHECKDETAIL:" errors.
<a href="#">CSCwh59926</a>	EEM is running daily instead of weekly or monthly if special strings @weekly or @monthly are used.
<a href="#">CSCwh24280</a>	Mismatch between the resource allocation and "app-resource profile custom" configuration.
<a href="#">CSCwh82668</a>	Incorrect local MPLS label in CEF after BGP flap.
<a href="#">CSCwh99464</a>	Guestshell connectivity not working with NAT overload.

Bug ID	Description
<a href="#">CSCwh30928</a>	SDA - using "spt-threshold infinity" and having LHR+FHR can cause the S,G to be pruned on the RP.
<a href="#">CSCwh01738</a>	Unexpected reload when using rsh/rcmd.
<a href="#">CSCwh04124</a>	Locally generated traffic received on incorrect interface inbound and dropped by ACL.
<a href="#">CSCwh96332</a>	Device crash due to dhcpd_binding_check.
<a href="#">CSCwh44418</a>	ARP incomplete in VRF Mgmt-intf - G0/0/0 - Switch -G0.
<a href="#">CSCwh46559</a>	LLDP location information not sent when configured.
<a href="#">CSCuv36790</a>	clear bgp command does not consider AFIs when used with update-group option
<a href="#">CSCwf53750</a>	"match pktlen-range" does not work with GRE/IPSEC GRE.
<a href="#">CSCwh60107</a>	In the show tech file, "enable secret" does not get hidden.
<a href="#">CSCwh95024</a>	ISIS crash in local uloop.
<a href="#">CSCwh41155</a>	Wrong /32 self, complete map-cache entry for fabric hosts on iBN when overlapping summary exists.
<a href="#">CSCwi00680</a>	Router unexpectedly reloads while using DHCP for ISG.
<a href="#">CSCwh96823</a>	IOS-XE router not installing classless-static-routes from DHCP option 121.
<a href="#">CSCwh84850</a>	Unexpected reboot in device due to SISF and STP initialization.
<a href="#">CSCwh21796</a>	Password getting visible for the mask-secret in show logging.
<a href="#">CSCwf59929</a>	CTS CORE process crash after configuring role based ACL.
<a href="#">CSCwh93772</a>	Option 121 never requested by IOS-XE client.
<a href="#">CSCwh06087</a>	[IPv6 BGP] multiple sourced paths present for the same prefix.
<a href="#">CSCwh29120</a>	IP SPD queue thresholds are out of range.
<a href="#">CSCwh99597</a>	After migration MAC/IP only MAC is advertised.

Bug ID	Description
<a href="#">CSCwh75992</a>	"BGP Router" process crash.
<a href="#">CSCwh76920</a>	Memory leak in linux_iosd-imag due to SNMP.
<a href="#">CSCwh75112</a>	After a reboot, EAP-FAST/PEAP does not authenticate unless credentials are changed.
<a href="#">CSCwh73350</a>	Device keeps crashing when processing a firewall feature.
<a href="#">CSCwh68508</a>	Unexpected reboot after establishing control plane of EVPN MPLS and receiving packets.
<a href="#">CSCwh10813</a>	Add verbose log to indicate grant ra-auto un configures grant auto in PKI server.

## Resolved Bugs in Cisco IOS XE 17.12.1a

Table 22: Resolved Bugs in Cisco IOS XE 17.12.1a

Bug ID	Description
<a href="#">CSCwd39257</a>	IOS-XE cpp crash when entering <b>no ip nat create flow-entries</b> .
<a href="#">CSCwh67812</a>	Unable to configure <b>crypto map</b> on a physical interface due to which crypto map-based VPN's cannot be formed.
<a href="#">CSCwfl6332</a>	HSRP loss communication with HSRP neighbor after two weeks of being configured.
<a href="#">CSCwe14885</a>	VPN is established although the peer is using a revoked certificate for authentication.
<a href="#">CSCwe12194</a>	Auto-update cycle incorrectly deletes certificates.
<a href="#">CSCwe66318</a>	NAT entries expire on standby router.
<a href="#">CSCwd59722</a>	Unexpected reboot due to IOSXE-WATCHDOG: Process = Crypto IKMP.
<a href="#">CSCwf48530</a>	C1100TG incorrectly enters controller-managed mode.
<a href="#">CSCwf09370</a>	Power supply unit showing empty in <b>show platform</b> output.
<a href="#">CSCwd76648</a>	Port-channel DPI load-balancing not utilizing all the member-links.

## Open Bugs in Cisco IOS XE 17.12.1a

Table 23: Open Bugs in Cisco IOS XE 17.12.1a

Bug ID	Description
<a href="#">CSCwf67564</a>	RP3 observes memory leak at process SSS Manager.

Bug ID	Description
<a href="#">CSCwf78735</a>	Device uses the NIM-1T/4T card for interconnection, and NAT+ GRE over IPsec cannot be applied.
<a href="#">CSCwf84960</a>	C-NIM-2T: LED L remains green after port shutdown.
<a href="#">CSCwh06834</a>	Using special characters in the password while generating TP generates an invalid TP.
<a href="#">CSCwf71557</a>	IPv4 connectivity over PPP not restored after reload.
<a href="#">CSCwf49390</a>	Device crashes@crypto_map_unlock_map_head.
<a href="#">CSCwf34171</a>	Configure replace command fails due to the license udi PID XXX SN:XXXX line on IOS-XE devices.
<a href="#">CSCwh01095</a>	Rapid memory leak on ngiolite process.
<a href="#">CSCwf99947</a>	Crash when modifying tunnel after running <b>show crypto</b> commands.
<a href="#">CSCwf60120</a>	Static NAT entry gets deleted from running config; but remains in startup config.
<a href="#">CSCwh00332</a>	B2B NAT: When configuration ip nat inside/outside on VASI interface, ack/seq number abnormal.

## Resolved Bugs in Cisco IOS XE 17.9.5

*Table 24: Resolved Bugs in Cisco IOS XE 17.9.5*

Bug ID	Description
<a href="#">CSCwh73350</a>	Router keeps crashing when processing a firewall feature.
<a href="#">CSCwh06834</a>	Using special characters in the password while generating TP generates an invalid TP.
<a href="#">CSCwf23291</a>	Device: "write" or "do write" saves configuration but RSA keys /SSH lost after reload.
<a href="#">CSCwi28227</a>	Router / IOS XE 17 / NAT HSL logging vrf-filter not working.
<a href="#">CSCwh68508</a>	Unexpected reboot after establishing control plane of EVPN MPLS and receiving packets.
<a href="#">CSCvo01546</a>	NHRP reply processing may dequeue an unrelated request.
<a href="#">CSCwf03193</a>	Device crash with crashinfo files were generated with Segmentation fault, Process IPSEC key engine
<a href="#">CSCwfl6332</a>	HSRP loss communication with HSRP neighbor after two weeks of being configured.
<a href="#">CSCwe14885</a>	VPN is established although the peer is using a revoked certificate for authentication.
<a href="#">CSCwh49644</a>	CSDL Compliance failure : Use of 3DES by IPsec is denied.
<a href="#">CSCwf55243</a>	Device is crashing while adding a trustpoint to the router .

Bug ID	Description
<a href="#">CSCwh32386</a>	Unexpected reload on router due to Critical process fman_fp_image in 17.9.3a.
<a href="#">CSCwf67564</a>	Device observes Memory Leak at process "SSS Manager".
<a href="#">CSCwh30377</a>	Device data plane crash in Umbrella/OpenDNS processing due to incorrect UDP length.
<a href="#">CSCwf34171</a>	"Configure replace" command fails due to the "license udi PID XXX SN:XXXX" line on IOS-XE devices.
<a href="#">CSCwf96980</a>	Unexpected reboot after configuring application redundancy.
<a href="#">CSCwe64779</a>	IOS XE router software forced reset during high IPC congestion with IPsec.
<a href="#">CSCwh20577</a>	Crashed by TRACK Client thread at access invalid memory location.
<a href="#">CSCwh36801</a>	Crash in IP Input process during tunnel encapsulation.
<a href="#">CSCwh96415</a>	Can't disable DMVPN logging in IOS-XE 17.8 and higher.
<a href="#">CSCwe85301</a>	Crypto PKI-CRL-IO_0 process crash when PKI trustpoint is being deleted.
<a href="#">CSCwh20734</a>	Crypto PKI-CRL-IO_0 process crash when PKI trustpoint is requested & deleted.
<a href="#">CSCwf71557</a>	IPv4 connectivity over PPP not restored after reload.
<a href="#">CSCwe97579</a>	Spoke-spoke cache refresh not working correctly in case of multiple cache entries for same next hop.
<a href="#">CSCwf04866</a>	Keyman process crash seen while re-generating SSH key in device.
<a href="#">CSCwh00332</a>	B2B NAT: when configuration ip nat inside/outside on VASI interface,ack/seq number abnormal.

## Open Bugs in Cisco IOS XE 17.9.5

*Table 25: Open Bugs in Cisco IOS XE 17.9.5*

Bug ID	Description
<a href="#">CSCwi08171</a>	Router may crash due to Crypto IKMP Process.
<a href="#">CSCwe24491</a>	Device: Static NAT with HSRP stops working after removing / adding standby.
<a href="#">CSCwi53951</a>	Packets with Unicast MAC get dropped on a Port Channel L2 Sub-intf after a router reboot.
<a href="#">CSCwh80441</a>	Cosmetic 3G issue causing distress to customers - Modem WCDMA 900 is displayed as Unknown.
<a href="#">CSCwh18120</a>	IKEv2 - diagnose feature is taking 11% CPU during session bring up.
<a href="#">CSCwh41497</a>	DDNS update retransmission timer fails to work with a traceback error.

Bug ID	Description
<a href="#">CSCwi06404</a>	PKI crash after failing a CRL Fetch.
<a href="#">CSCwh50510</a>	Router Crash with Segmentation fault(11), Process = NHRP when processing NHRP traffic.
<a href="#">CSCwi25737</a>	Router should discard IKE Notification messages with incorrect DOI.
<a href="#">CSCwi46997</a>	NAT Command not readable after reload.
<a href="#">CSCwi51326</a>	CPP CP SVR crash after decoding all packets to text (using l2 copy) on fia trace.
<a href="#">CSCwi63042</a>	Packet drops observe between LISP EID over GRE Tunnel.
<a href="#">CSCwc30418</a>	Segmentation fault observed in ikev2_dupe_delete_reason.
<a href="#">CSCwi16111</a>	IPv6 tcp adjust-mss not working after delete and reconfigure.
<a href="#">CSCwi10735</a>	ZBF drops transit WAAS PSH/ACK packet due to 'Invalid ACK number'.
<a href="#">CSCwh91136</a>	IOS XE: Traffic not encrypted and dropped over IPSEC SVTI tunnel.

### Resolved Bugs - Cisco IOS XE 17.9.4a

All resolved bugs for this release are available in the [Cisco Bug Search Tool](#).

Bug ID	Description
<a href="#">CSCwh87343</a>	Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see Security Advisory: <a href="#">cisco-sa-iosxe-webui-privesc-j22SaA4z</a>

### Open Bugs - Cisco IOS XE 17.9.4a

There are no open bugs in this release.

### Resolved Bugs in Cisco IOS XE 17.6.7

*Table 26: Resolved Bugs in Cisco IOS XE 17.6.7*

Identifier	Headline
<a href="#">CSCwh73350</a>	Router keeps crashing when processing a firewall feature.
<a href="#">CSCvo01546</a>	NHRP reply processing may dequeue an unrelated request.
<a href="#">CSCwh49644</a>	CSDL Compliance failure : Use of 3DES by IPsec is denied.
<a href="#">CSCwh20577</a>	Crashed by TRACK Client thread at access invalid memory location.
<a href="#">CSCwf34171</a>	"Configure replace" command fails due to the "license udi PID XXX SN:XXXX" line on IOS-XE devices.
<a href="#">CSCwh36801</a>	Crash in IP Input process during tunnel encapsulation.

## Open Bugs in Cisco IOS XE 17.6.7

There are no open bugs in this release.

## Resolved Bugs in Cisco IOS XE 17.6.6a

All resolved bugs for this release are available in the [Cisco Bug Search Tool](#).

Bug ID	Description
<a href="#">CSCwh87343</a>	Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see Security Advisory: <a href="#">cisco-sa-iosxe-webui-privesc-j22SaA4z</a>

## Open Bugs in Cisco IOS XE 17.6.6a

*Table 27: Open Bugs in Cisco IOS XE 17.6.6a*

Bug ID	Description
<a href="#">CSCwh01095</a>	Rapid memory leak on ngiolite process.

## Resolved Bugs in Cisco IOS XE 17.6.6

*Table 28: Resolved Bugs in Cisco IOS XE 17.6.6*

Bug ID	Description
<a href="#">CSCwf47563</a>	Device is crashing after importing the trustpoint with rsakeypair.
<a href="#">CSCwf24164</a>	Netflow stops working when flow monitor reaches cache limit.
<a href="#">CSCwf09370</a>	Power supply unit showing empty in <b>show platform</b> output.
<a href="#">CSCwf16332</a>	HSRP loss communication with HSRP neighbor after two weeks of being configured.

## Open Bugs in Cisco IOS XE 17.6.6

*Table 29: Open Bugs in Cisco IOS XE 17.6.6*

Bug ID	Description
<a href="#">CSCwh01095</a>	Rapid memory leak on ngiolite process.

## Resolved Bugs in Cisco IOS XE 17.6.5a

All resolved bugs for this release are available in the [Cisco Bug Search Tool](#).

Bug ID	Description
<a href="#">CSCwh87343</a>	Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see Security Advisory: <a href="#">cisco-sa-iosxe-webui-privesc-j22SaA4z</a>

## Open Bugs in Cisco IOS XE 17.6.5a

No open bugs in this release.

## Resolved Caveats - Cisco IOS XE 17.3.8a

All resolved bugs for this release are available in the [Cisco Bug Search Tool](#).

Bug ID	Description
<a href="#">CSCwh87343</a>	Cisco IOS XE Software Web UI Privilege Escalation Vulnerability. For more information, see Security Advisory: <a href="#">cisco-sa-iosxe-webui-privesc-j22SaA4z</a>

## Open Bugs in Cisco IOS XE 17.3.8a

No open bugs in this release.

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