

# Release Notes for Cisco 1100 Terminal Services Gateway, Cisco IOS XE Amsterdam 17.x

First Published: 2020-05-12

## 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 |

## New and Enhanced Hardware and Software Features

### New and Changed Hardware Information

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

- **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 Information

#### New and Changed Software Information 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

## New and Changed Software Information 17.4.1

The following features are new in the Cisco 1100 Terminal Services Gateway for the 17.4.1 release:

- Smart Software Manager On-Prem (SSM On-Prem) Support for Smart Licensing Using Policy: 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.

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 *push* the required information to SSM On-Prem. Alternatively, SSM On-Prem can be set-up to *pull* 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.

Minimum Required SSM On-Prem Version: Version 8, Release 202102

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.)

For more information, see [https://www.cisco.com/c/en/us/td/docs/routers/sl\\_using\\_policy/b-sl-using-policy.html](https://www.cisco.com/c/en/us/td/docs/routers/sl_using_policy/b-sl-using-policy.html)

- 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.

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).

In order to meet reporting requirements, Cisco DNA Center provides ad hoc or on-demand reporting, as well as scheduled reporting options.



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**Note** Cisco DNA Center also provides workflows for the installation and removal of the Smart Licensing Authorization Code (SLAC) for a product instance, if applicable.

On the Cisco DNA Center GUI, you can generate a SLAC *only* for HSECK9 licenses, and *only* for certain product instances. See the [configuration guide](#) for details.

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