

New Features

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New Features for Cisco IOS XE 26.2.1

New features in this release are:

- Password encryption types for wireless profile configuration
- DHCP Option 82
- IKEv2 and IPsec PFS Post Quantum Cryptography
- Post Quantum Cryptography for SSHv2 sessions
- Support for P-5GS6-RC-GL PIM

New Features for Cisco IOS XE 26.1.1

New features in this release are:

- Change of Authorization

- GPS NMEA unique identifier

New Features for Cisco IOS XE 17.18.2

New features in this release are:

- Cellular Network Slicing
- Cisco ThousandEyes Enterprise Agent
- Common HSEC License

New Features for Cisco IOS XE 17.18.1a

New feature in this release is listed below:

- IP Device Tracking
- VRF for the P-LTE-450 module
- Inline Tagging on switch interfaces

New Features for Cisco IOS XE 17.17.1

New features in this release is listed below:

- Multi-Homing Configuration in BGP EVPN VXLAN Fabric

New Features for Cisco IOS XE 17.16.1a

New features in this release are listed below:

- Access Accelerometer and Gyro Sensor Data from IRM-GNSS
- Configure DR Module using Cisco Catalyst SD-WAN Manager
- Configuring EVPN VXLAN VLAN-Aware Service
- Monitoring Radio Signal Parameters and GPS Coordinates of Cellular Telemetry using Syslog Messages
- Enhancing P-LTE-450 Network Management Through SNMP MIB Objects

New Features for Cisco IOS XE 17.15.1a

New features in this release are listed below:

- Software Supported MACsec

- Higher CPU and RAM Allocation for IOx Applications

New Features for Cisco IOS XE 17.14.1a

New features in this release are listed below:

- Support for CAPWAP and WGB Modes on the Cisco Wi-Fi Interface Module
- Additional Modem Support for Cellular Pluggable Modules
- Support for P-LTE-450 Pluggable Interface Module

New Features for Cisco IOS XE 17.13.1

This chapter contains the following sections:

- Change in Vendor for GNSS Module
- IOX Access to IR1800 On-board Accelerometer and Gyroscope
- Unified Threat Defense (UTD)
- vManage Support for EWC Mode on the Cisco Wi-Fi Interface Module
- Additional Modem Support for Cellular Pluggable Modules
- SD-WAN Remote Access
- Change in CLI Output for the FN980 5G Modem

New Features for Cisco IOS XE 17.12.1a

New features in this release are listed below:

- Access Accelerometer and Gyro Sensor Data from IRM-GNSS
- 5G Standalone Mode (SA) Support
- Uncapped License Implementation

New Features for Cisco IOS XE 17-11-1a

New features in this release are listed below:

- LoRaWAN Pluggable Interface Module Support
- GNSS Support on the GPS/Dead Reckoning Module (IRM-GNSS-ADR)
- Galileo Support on the LTE Pluggable Modules

- Change to Smart Licensing Packaging
- Cisco IoT Operations Dashboard (OD) Support to Configure and Manage the WP-WIFI6-x Module

New Features for Cisco IOS XE 17.10.1a

New features in this release are listed below:

- Digital Subscriber Line (DSL) SFP Support on the IR1800
- vManage Support for the WP-WIFI6-x Module
- Enable Secure Data Wipe Capabilities
- Rawsocket Keepalive Configuration CLI

New Features for Cisco IOS XE 17.9.1

New features in this release are listed below:

- Install Mode Support
- Cellular Boot Time Improvements
- IOS XE Downgrade Warning
- SNMP Polling of Temperature OID
- GPS Mode Enabled By Default
- Packet Capture Support for CANBUS
- GPS and Dead Reckoning Support for the J1939 Connector

New Features for Cisco IOS XE 17.8.1

- Raw socket feature enhancement
- SCADA enhancement for TNB
- gRPC Network Operations Interface updates
- GNMI Broker update

Cellular serviceability enhancements

Cellular serviceability enhancements are debugging features that:

- enable trigger points and debug code via controller cellular CLIs for automatic generation and trapping of debug data without manual intervention,

- provide context-based debug logs including tracebacks and GPS locations, and
- create well-formatted debug messages with vendor-specific debug data at a broader range.

Available CLI options

The following CLI options are available for cellular serviceability:

```
(config-controller)#lte modem serviceability ?
  gps               GPS debugging
  interface-resets  Interface resets/Bearer deletion
  modem-crash       Modem-crash debugging
  modem-resets      IOS initiated unknown modem-resets
```

The debug data includes:

- Context Based debug logs (tracebacks, and GPS locations).
- Well formatted debug messages.
- Vendor specific debug data at a broader range.

The debug logs are located in the following location of flash:

```
router#dir flash:servelogs
Directory of bootflash:/servelogs/

259340  -rw-              122   Sep 7 2021 17:40:44 +00:00  gpslog-slot5-20210907-174044
259339  -rw-             1734   Sep 7 2021 12:14:07 +00:00  celllog-slot5-20210905-164628
```

GPS and cellular log files are created separately with file names using the timestamp at the time of the creation. These files are created as follows:

- If the existing file has reached 10Mb, a new file will be created.
- A new file will be created if the feature (GPS, or cellular) is completely disabled, and then re-enabled.

New Features for Cisco IOS XE 17.7.1

Support 1G SFPs

Release 17.7.1 will add support for these SFPs:

- GLC-T-RGD
- CWDM-SFP-1470=
- CWDM-SFP-1610=
- CWDM-SFP-1530=
- DWDM-SFP-3033=
- DWDM-SFP-3112=
- GLC-BX-D-I=
- GLC-BX-U-I=

- GLC-TE