What's New in Cisco IOS XE 17.14.x

Hardware Features in Cisco IOS XE 17.14.1

There are no new hardware features in this release.

Software Features in Cisco IOS XE 17.14.1

Feature Name	Description
BGP EVPN VXLAN • **fast-detection** command • **show lisp instance** {**ipv4** | **ipv6** | **ethernet**} command	The following BGP EVPN VXLAN features are introduced in this release: • **fast-detection** command: **fast-detection** command enables SD-Access support for fast wireless roaming of end points. • **show lisp instance** {**ipv4** | **ipv6** | **ethernet**} command: The output of **show lisp instance** {**ipv4** | **ipv6** | **ethernet**} command is enhanced to display the affinity ID for the local device.
device tracking export oper data command	The **device tracking export oper data** command is introduced. This command is used to export information like Switch Integrated Security Features (SISF) IP addresses and MAC address tables to the Crimson database.
Distributed Processing for IPsec	Distributed processing increases the IPsec throughput which was earlier limited to 100G. On the Cisco Catalyst 9300X Series Switches, IPsec throughput is increased to 200G.
hw-module ecomode serdes-disable command	The **hw-module ecomode serdes-disable** command is introduced. Empty SFP ports have ecomode enabled and are powered down by default to save power. Use the **hw-module ecomode serdes-disable** command to turn off ecomode.

Feature Name	Description
IP SLA Probe Configuration Modification Capability	Introduces support to reconfigure the parameters of a scheduled IP SLA session using the **configure replace** command.
mDNS Protocol Options	The mDNS protocol option is introduced in the **device sensor filter spec** command. This allows the user to apply the mDNS protocol TLV filter list to the device sensor output. The **device sensor filter list mdns** command is introduced to create a mDNS protocol filter containing a list of Type-Length-Value (TLV) fields that can be included or excluded in the device sensor output. The **tlv** command is introduced to configure the list of Type Length Value (TLVs) in mDNS protocol configuration mode.
NAT SSO support with StackWise Virtual	Introduces support for synchronization of the NAT state information across active and standby devices so that if the active device fails, the standby device can take over smoothly and update its software without interrupting In-Service Software Upgrade (ISSU).
OSPF Local RIB Path Limit Enhancement	The OSPF Local RIB Path Limit feature is designed to restrict the number of paths stored by OSPF in its Local RIB, offering enhanced control over network path selection. With the **maximum-paths** command enabled, the network administrators can now control the number of paths OSPF installs in the Local RIB for a specific prefix.
Programmability: • gNMI: Stream Subscriptions with on-Change Mode • gNMI: SubscribeResponse with sync_response • YANG Data Models • YANG Support for Mutiple Next-Hops	The following programmability features are introduced in this release: • gNMI: Stream Subscriptions with on-Change Mode: gNMI telemetry supports on-change subscriptions on the same set of models as other telemetry protocols. • gNMI: SubscribeResponse with sync_response: The sync_response is a boolean field that is part of the SubscribeResponse response message. The sync_response message is sent after the first update message. • YANG Data Models: For the list of Cisco IOS XE YANG models available with this release, navigate to: https://github.com/YangModels/yang/tree/main/vendor/cisco/xe/17141. • YANG Support for Mutiple Next-Hops: A new container is added under the next-hop-options choice node to retrieve all next-hops for a given route or prefix. Also, an uptime leaf node is added to provide the timestamp for each next hop.
show reload history command	The **show reload history** command is introduced. It displays the reason for device reload and its history.
Smart LEDs	The **hw-module switch ecomode** command is introduced. Use this command to turn off all port LEDs at once.

Feature Name	Description
spanning-tree bpdu sender-conflict command	This feature allows the user to enable spanning tree protocol BPDU sender conflict feature using the **spanning-tree bpdu sender-conflict** command. When the device is in RSTP mode, BPDU packets are transmitted every two seconds from a designated port to a non-designated port. When you use the **spanning-tree bpdu sender-conflict** command, if there is any change in the RSTP mode due to sender conflict, the device generates a notification.

New on the WebUI
There are no new WebUI features in this release.

Hardware and Software Behavior Changes in Cisco IOS XE 17.14.1

Behavior Change	Description
show crypto engine accelerator statistic command	The **show crypto engine accelerator statistic** command is now available on the Cisco Catalyst 9300 Series Switches and Cisco Catalyst 9300X Series Switches.
Switch Integrated Security Features (SISF) – Enhanced Throttling Limit for ARP Packets	In Cisco IOS XE Amsterdam 17.3.1, a throttling limit was introduced to mitigate high CPU utilization scenarios. In a five second window, a maximum of 50 ARP broadcast packets per source IP were processed by SISF. In Cisco IOS XE 17.14.1, this limit is increased to a maximum of 100 ARP broadcast packets for each source IP. When the limit is reached, incoming ARP packets are dropped.