Whats New in Cisco IOS XE Cupertino 17.9.x

Whats New in Cisco IOS XE Cupertino 17.9.5

Hardware Features in Cisco IOS XE Cupertino 17.9.5

There are no new hardware features in this release.

Software Features in Cisco IOS XE Cupertino 17.9.5

There are no new software features in this release.

Hardware and Software Behavior Changes in Cisco IOS XE Cupertino 17.9.5

There are no behavior changes in Cisco IOS XE Cupertino 17.9.5.

Whats New in Cisco IOS XE Cupertino 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 Security Advisory: cisco-sa-iosxe-webui-privesc-j22SaA4z.

Whats New in Cisco IOS XE Cupertino 17.9.4

Hardware Features in Cisco IOS XE Cupertino 17.9.4

There are no new hardware features in this release.

Software Features in Cisco IOS XE Cupertino 17.9.4

There are no new software features in this release.

Hardware and Software Behavior Changes in Cisco IOS XE Cupertino 17.9.4

There are no behavior changes in Cisco IOS XE Cupertino 17.9.4.

Whats New in Cisco IOS XE Cupertino 17.9.3

Hardware Features in Cisco IOS XE Cupertino 17.9.3

There are no new hardware features in this release.

Software Features in Cisco IOS XE Cupertino 17.9.3

There are no new software features in this release.

Hardware and Software Behavior Changes in Cisco IOS XE Cupertino 17.9.3

Behavior Change	Description
Inlet Temperature Threshold Values	Yellow and Red thresholds for inlet temperature are modified on Cisco Catalyst 9200CX Series Switches. The new values are: • Yellow Threshold: 74 degree celsius • Red Threshold: 81 degree celsius

Whats New in Cisco IOS XE Cupertino 17.9.2

Hardware Features in Cisco IOS XE Cupertino 17.9.2

There are no new hardware features in this release.

Software Features in Cisco IOS XE Cupertino 17.9.2

There are no new software features in this release.

Hardware and Software Behavior Changes in Cisco IOS XE Cupertino 17.9.2

There are no behavior changes in Cisco IOS XE Cupertino 17.9.2.

Whats New in Cisco IOS XE Cupertino 17.9.1

Hardware Features in Cisco IOS XE Cupertino 17.9.1

Feature Name	Description and Documentation Link
Cisco Catalyst 9200 Series Switches (C9200CX)	The following new models have been introduced in the series: • C9200CX-8P-2X2G: 8x1G PoE+ ports; 2x1G and 2x10G SFP+ fixed uplink ports; powered using 310W internal power supply unit; fanless. • C9200CX-12P-2X2G: 12x1G PoE+ ports; 2x1G and 2x10G SFP+ fixed uplink ports; powered using 310W internal power supply unit; fanless. • C9200CX-12T-2X2G: 12x1G Ethernet ports; 3x1G and 2x10G SFP+ fixed uplink ports; the last 1G copper uplink port is a Class 6 PD port capable of powering the switch; also supports 80W auxiliary power adapter; fanless. For more information about the hardware, see the Cisco Catalyst 9200CX Compact Series Switches Hardware Installation Guide.

Software Features in Cisco IOS XE Cupertino 17.9.1

Feature Name	Description
DHCP Snooping with Egress SPAN on the same interface	Introduces support for configuring concurrent DHCP Snooping and egress SPAN on the same interface for non-SDA deployments.
Programmability • YANG Data Models • Pubd Restartability	The following programmability features are introduced in this release: • YANG Data Models: For the list of Cisco IOS XE YANG models available with this release, navigate to: https://github.com/YangModels/yang/tree/master/vendor/cisco/xe/1791. Revision statements embedded in the YANG files indicate if there has been a model revision. The README.md file in the same GitHub location highlights changes that have been made in the release. • Pubd Restartability: The pubd process is restartable on all platforms in this release. Prior to this release, pubd was restartable only on certain platforms. On other platforms, to restart the pubd process, the whole device had to be restarted.

Feature Name	Description
Smart Licensing Using Policy • New mechanism to send data privacy related information • Hostname support	The following Smart Licensing Using Policy features are introduced in this release: • New mechanism to send data privacy related information: This information is no longer included in a RUM report. If data privacy is disabled (**no license smart privacy** { **all** | **hostname** | **version**} global configuration command), data privacy related information is sent in a separate sync message or offline file. 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 the offline file that is generated when you enter the **license smart save usage** privileged EXEC command. • Hostname support: Support for sending hostname information was introduced. If you configure a hostname on the product instance and disable the corresponding privacy setting (**no license smart privacy hostname** global configuration command), hostname information is sent from the product instance, in a separate sync message or offline file. Depending on the topology you have implemented, the hostname information is received by CSSM, and CSLU or SSM On-Prem. It is then displayed on the corresponding user interface.
SMU Installation disabled in bundle mode	Support for SMU installation is disabled in bundle mode. Installation is supported only in install mode.
Support for PI SSH	Cisco IOS SSH Server and Client support for the following encryption algorithms have been introduced: • aes128-gcm@openssh.com • aes256-gcm@openssh.com
SXP Version 5	SXP version 5 has been designed to export and import SXP mappings between specified SXP peers.

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

Hardware and Software Behavior Changes in Cisco IOS XE Cupertino 17.9.1

Behavior Change	Description
Custom SDM Templates: Default FIB MAC Address Value	The custom FIB MAC address minimum/default value is 16K. The configurable range for the number of 1k entries is 16 to 128. From Cisco IOS XE Cupertino 17.9.1, this is applicable to *all* subsequent releases.
DHCP Egress Packets Captured in SPAN Sessions	SPAN sessions capture Dynamic Host Configuration Protocol (DHCP) egress packets when DHCP snooping is enabled on the device.

Behavior Change	Description
Inlet Temperature Threshold Values	Yellow and Red thresholds for inlet temperature are modified on Cisco Catalyst 9200CX Series Switches. The new values are: • Yellow Threshold: 75 degree celsius • Red Threshold: 85 degree celsius
Last Reload Reason in **show version** command output	The **show version** command output in User EXEC mode is modified. This applies only to stacked switches. Last reload reason does not display error now.
RUM report throttling	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. The affected topologies are: *Connected Directly to CSSM*, *Connected to CSSM Through CSLU* (product instance-initiated communication), *CSLU Disconnected from CSSM* (product instance-initiated communication), and *SSM On-Prem Deployment* (product instance-initiated communication). 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. You can override the reporting frequency throttling, by entering the **license smart sync** 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. 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 *all* subsequent releases.
show logging onboard switch poe command output	The **show logging onboard switch poe** command output is modified on Cisco Catalyst 9200CX Series Switches. The maximum sensor value is modified.
show vlan mapping command output	The **show vlan mapping** command output is modified. Information about Five GigabitEthernet interface is displayed in the output.