



## Whats New in Cisco IOS XE Dublin 17.10.x

- [Hardware Features in Cisco IOS XE Dublin 17.10.1, on page 1](#)
- [Software Features in Cisco IOS XE Dublin 17.10.1, on page 2](#)
- [Hardware and Software Behavior Changes in Cisco IOS XE Dublin 17.10.1, on page 4](#)

### Hardware Features in Cisco IOS XE Dublin 17.10.1

Feature Name	Description
Cisco 50GBASE SFP56 Modules on C9600-LC-48YL and C9600-LC-40YL4CD	Supported transceiver module product numbers: <ul style="list-style-type: none"><li>• SFP-50G-LR-S</li></ul> For information about the module, see <a href="#">Cisco 50GBASE SFP56 Modules Data Sheet</a> . For information about device compatibility, see the <a href="#">Transceiver Module Group (TMG) Compatibility Matrix</a> .
Cisco 10GBASE SFP+ Module	Supported transceiver module product numbers: <ul style="list-style-type: none"><li>• SFP-10G-T-X</li></ul> For information about the module, see <a href="#">Cisco 10GBASE SFP+ Modules Data Sheet</a> . For information about device compatibility, see the <a href="#">Transceiver Module Group (TMG) Compatibility Matrix</a> .
100GBASE DR QSFP Module	Supported transceiver module product numbers: <ul style="list-style-type: none"><li>• QSFP-100G-DR-S</li></ul> For information about the module, see <a href="#">Cisco 100GBASE QSFP-100G Modules Data Sheet</a> . For information about device compatibility, see the <a href="#">Transceiver Module Group (TMG) Compatibility Matrix</a> .

## Software Features in Cisco IOS XE Dublin 17.10.1

Feature Name	Description
BGP EVPN VXLAN support on Cisco Catalyst 9600 Series Supervisor 2 Module (C9600X-SUP-2)	<p>The Cisco Catalyst 9600 Series Supervisor 2 Module supports the following BGP EVPN VXLAN features:</p> <ul style="list-style-type: none"> <li>• Layer 2 and Layer 3 overlay with IPv4 and IPv6 hosts</li> <li>• Multicast replication for Broadcast, Unknown Unicast, Multicast (BUM) traffic</li> <li>• Distributed Anycast Gateway</li> <li>• EVPN VXLAN External Connectivity with VRF-Lite and IEEE 802.1Q network</li> </ul> <p>This release does not support Ingress Replication, Multi-Homing and Centralized Default Gateway.</p>
BGP EVPN VXLAN with IPv6 in the Underlay (VXLANv6)	<p>Introduces support for IPv6 addressing in the underlay of a BGP EVPN VXLAN fabric. In a new deployment, you can build your BGP EVPN VXLAN fabric with IPv6 underlay. For an existing BGP EVPN VXLAN fabric with IPv4 underlay, you can seamlessly migrate to an IPv6 or dual stack underlay.</p>
Cisco DNA Service for Bonjour	<p>Cisco DNA Service for Wide Area Bonjour (Multicast DNS Mode only) and Local Area Bonjour in Unicast Mode for Multi-Layer Network and Routed Access Network was introduced on Cisco Catalyst 9600 Series Supervisor 2 Module (C9600X-SUP-2).</p>
Cisco StackWise Virtual	<p>Cisco StackWise Virtual is a network system virtualization technology that pairs two switches into one virtual switch to simplify operational efficiency with a single control and management plane.</p> <p>Starting with this release, the feature is supported on the Cisco Catalyst 9600 Series Supervisor 2 Module (C9600X-SUP-2).</p>
Custom EAPoL	<p>Allows customization of the default EAPoL EtherType to configure MACsec with EtherType as 876F.</p>
DHCP Gleaning	<p>Introduces support for a read-only DHCP snooping functionality that allows components to register and glean only DHCP version 4 packets.</p>
Enhanced Password Security Through Updated Combination Rule	<p>The <b>character-repetition</b> and <b>restrict-consecutive-letters</b> keywords were introduced for the <b>aaa common-criteria</b> policy command.</p>
MACsec Fallback Key Support with High Availability	<p>Introduces support for the MACsec Fallback Key feature with High Availability. The MACsec Fallback Key feature establishes an MKA session with the pre-shared fallback key whenever the PSK fails to establish a session because of key mismatch.</p>

Feature Name	Description
NAT support on L3 Port Channel	Introduces support for configuring NAT on Layer 3 port channel using the <b>interface port-channel</b> command.
Programmability <ul style="list-style-type: none"> <li>• Upgrade YANG Models to YANG 1.1</li> <li>• YANG Data Models</li> </ul>	The following programmability features are introduced in this release: <ul style="list-style-type: none"> <li>• Upgrade YANG Models to YANG 1.1: Cisco-defined YANG models are in YANG Version 1.1 in Cisco IOS XE Dublin 17.10.1 and later releases.</li> <li>• YANG Data Models: For the list of Cisco IOS XE YANG models available with this release, navigate to: <a href="https://github.com/YangModels/yang/tree/master/vendor/cisco/xe/17101">https://github.com/YangModels/yang/tree/master/vendor/cisco/xe/17101</a>.</li> </ul>
PTPv2 with Cisco StackWise Virtual	Introduces support for PTPv2 with Cisco StackWise Virtual.
RADIUS Automated Testing Probe-on	The command <b>automate-tester probe-on</b> was introduced. It starts a dead timer and packets are sent to the external RADIUS server after the timer expires.
Reflexive Access Lists (IPv4)	Reflexive access lists allow IP packets to be filtered based on upper-layer session information.
Secure Data Wipe	Introduces support for performing factory reset by using the keyword <b>all secure</b> in the <b>factory-reset</b> command. This option performs data sanitisation and securely resets the device.
SGACL Monitor Mode and SGACL Logging	Introduces support for SGACL Monitor Mode and SGACL Logging on the Cisco Catalyst 9600 Series Supervisor 2 Module.
SHA256 based Password-masking support	You can use the <b>masked-secret</b> keyword on the <b>enable algorithm type</b> command and <b>username</b> command. The keyword masks the secret input and converts to the selected encryption.
Standalone Mode on Layer 3 EtherChannels	Introduces support for configuring standalone mode/independent mode on Layer 3 EtherChannels.
Stateful NAT64	Introduces support for a translation mechanism that translates IPv6 packets into IPv4 packets and vice versa. Packets generated in an IPv6 network can be sent to an IPv4 network within the IPv6 network using the Stateful NAT64 translator.

**New on the WebUI**

There are no new WebUI features in this release.

# Hardware and Software Behavior Changes in Cisco IOS XE Dublin 17.10.1

Behavior Change	Description
<b>debug platform</b> command	The <b>debug platform software fed switch active inject packet-capture start</b> command was modified. <b>full-packet</b> keyword was added. It allows you to capture 1500 bytes of packet. The default packet capture was only for 128 bytes of the packet prior to Cisco IOS XE Dublin 17.10.1.