Feature History

The following table lists the new and modified features supported in the Carrier Ethernet Configuration Guide in Cisco IOS XE 17 releases.

Feature	Description
Cisco IOS XE Dublin 17.10.1	
Tagged Packet Support Using Link Layer Discovery Protocol (LLDP)	LLDP now supports tagged packet transmission over a service instance with dot1q encapsulation.
	LLDP advertises information about themselves to their network neighbors, and store the information they discover from other devices. Though both these transmitted frames go through the same physical interface, they can be uniquely identified by the information advertised in the Port ID Type-Length-Value (TLV).
	You can use the lldp enable command to enable LLDP over a particular service instance. Use the **show lldp neighbors** and **show lldp entry** command outputs for neighboring device details.
	This feature is supported on both Cisco RSP2 and RSP3 modules.
Cisco IOS XE Cupertino 17.9.1	
Custom Idle Pattern	You can configure idle pattern manually on CEM circuits and verify if it's stable and transmitted to the other end in alarm conditions. You can configure on all CEM PWs in a T1/E1 circuit.
	Supported on the following IMs on CESoPSN circuits with both partial and full time slots.
	• ASR 900 48 port T1/E1 Interface Module
	• ASR 900 48 port DS3/E3 Interface Module
	• 1-port OC481/ STM-16 or 4-port OC-12/OC-3 / STM-1/STM-4 + 12-Port T1/E1 + 4-Port T3/E3 CEM Interface Module
	• ASR 900 Combo 8-Port SFP GE and 1-Port 10 GE 20G Interface Module
	These idle pattern numbers are used for tracking purposes.
Cisco IOS XE Cupertino 17.8.1	

Feature	Description
Latching Loopback	Latching Loopbacks (LLs) are used for Service Activation Testing (SAT) and troubleshooting the information rate for point-to-point and multipoint services across multiple Carrier Ethernet Networks (CENs). Thus, eliminate the need for a peer to interoperate with the Service Provider for SAT. You can configure latching loopback on an interface. Latching loopback supports the following features on RSP3 module: • Internal and external loopbacks for a port. • Latching loopback states such as prohibited, inactive, and active. • Connectivity Fault Management (CFM) in both upward and downwards direction on an interface. • Latching loopback activation and deactivation on a service instance.
Cisco IOS XE Bengaluru 17.5.1	
CFM Sessions Hardware Offload	This feature enables for effective CPU utilization by offloading the one second CCM interval sessions on the hardware.
Cisco IOS XE Bengaluru 17.4.1	
Enabling the Bridge Domain Interface	Starting with the Cisco IOS XE Bengaluru 17.4.1 release, you can configure the `platform bdi enable-state up` global command.