



New Features in Cisco IOS XE 3.14S Releases

This chapter provides information about the new features introduced in the Cisco IOS XE Release 3.14S.

This chapter includes the following sections:

- [New Hardware Features in Cisco IOS XE Release 3.14.2S, page 10-1](#)
- [New Hardware Features in Cisco IOS XE Release 3.14S, page 10-1](#)
- [New Software Features in Cisco IOS XE Release 3.14.2S, page 10-2](#)
- [New Software Features in Cisco IOS XE Release 3.14S, page 10-2](#)

New Hardware Features in Cisco IOS XE Release 3.14.2S

There are no new features introduced for Cisco IOS XE Release 3.14.2.

New Hardware Features in Cisco IOS XE Release 3.14S

The following features are introduced in Cisco IOS XE Release 3.14S.

32-port T1/E1 Interface Modules

The 32-port T1/E1 interface module (32 x T1/E1) is introduced on the ASR900-RSP2A modules on Cisco ASR 900 Series Routers

For information on supported interface modules, part numbers and slot restrictions, see [Hardware Supported, page 1-2](#).

For information on installation, see [Cisco ASR 903 Series Aggregation Services Router Hardware Installation Guide](#).

Supported Optics

The following optics are introduced on the 8-port 1 Gigabit Ethernet SFP interface module with the 1-port 10 Gigabit Ethernet interface module in Cisco IOS XE Release 3.14S.

- GLC-BX40-U-I
- GLC-BX40-D-I

- GLC-BX40-DA-I
- GLC-BX80-U-I
- GLC-BX80-D-I
- CWDM-SFP-xxxx=
- CWDM-SFP10G-xxxx

The following optics are supported on the RSP2 module for the 8-port 1 Gigabit Ethernet SFP interface module with the 1-port 10 Gigabit Ethernet interface module :

- SFP-10G-BXD-I
- SFP-10G-BXU-I
- SFP-10G-BX40D-I
- SFP-10G-BX40U-I

New Software Features in Cisco IOS XE Release 3.14.2S

VRRPv3 Protocol Support

This feature is supported on the ASR-900 RSP1 modules with release Cisco IOS XE Release 3.14.2.

For more information, see [First Hop Redundancy Protocols Configuration Guide, Cisco IOS XE Release 3S \(Cisco ASR 900 Series\)](#).

New Software Features in Cisco IOS XE Release 3.14S

The following features are introduced in Cisco IOS Release 3.14S.

- [RSP2 Module Features](#)
- [CEM over UDP](#)
- [Async RS232 over MPLS](#)
- [TSoP Smart SFP](#)

RSP2 Module Features

See [Feature Set Table, page 1-8](#) for the list of supported software features in Cisco IOS XE Release 3.14S.

CEM over UDP

The Circuit Emulation Service over UDP feature extends the implementation of Cisco IOS Circuit Emulation Service (CES) by supporting pseudowire emulation (PWE) function to be performed over an Internet Protocol (IP) network directly.

For more information, see [MPLS Basic Configuration Guide, Cisco IOS XE Release 3S \(ASR 900 Series\)](#).

Async RS232 over MPLS

The Cisco ASR 903 Series Router Serial interface module supports pseudowire types that utilize Async RS232 traffic over MPLS. The Serial IM interfaces monitor and detect cable connections, cable types and also monitors modem control signals periodically.

For more information, see [Cisco ASR 900 Router Series Configuration Guide](#).

TSoP Smart SFP

TSoP Smart SFP is a special type of optical transceiver which provides solution to transparently encapsulate SDH or SONET bit streams into packet format, suitable for pseudowire transport over an ethernet network.

For more information, see [Time Division Multiplexing Configuration Guide, Cisco IOS XE Release 3S \(Cisco ASR 900 Series\)](#).

BFD Support for Multicast (PIM)

[IP Multicast: PIM Configuration Guide, Cisco IOS XE Release 3S](#)

