Release Notes for Cisco Routed PON, Cisco IOS XR Release 24.2.1

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Cisco Routed PON Solution on Cisco IOS XR Release 24.2.1

This release note covers the new features and updates for Cisco Routed PON in Cisco IOS XR release 24.2.1.

For more details on the Cisco IOS XR release model and associated support, see Guidelines for Cisco IOS XR Software.

What's New in Cisco Routed PON for Cisco IOS XR 24.2.1

Software Features Introduced

Table 1: Software Features Introduced with Cisco IOS XR 24.2.1 Release

Feature	Release	Description
NETCONF Server for ConfD application support	24.2.1	Cisco Routed PON solution includes NETCONF Server, a component that works with the ConfD application to offer programmable management capabilities. The solution supports automation with the NETCONF server, which streamlines tasks, minimizes the chance of mistakes, and enhances scalability across network operations.

Hardware Introduced

Table 2: Hardware Introduced with Cisco IOS XR 24.2.1 Release

Hardware	Release	Description
Optics support for NCS 5700 Series Router	24.2.1	The Cisco NCS-57C3-MODS-SYS Fixed Port Router now supports the configuration and management of the Cisco PON OLT SFP transceiver on the NC55-MPA-12T-S Modular Port Adapter (MPA). Inserting the PON OLT SFP transceiver into the NC55-MPA-12T-S MPA on the router facilitates the deployment of the Cisco Routed PON solution.

Restrictions and Limitations on the Cisco Routed PON Solution

IEEE 802.1X (Dot1x) authentication is not supported for the Cisco OLT interface.

Caveats on Cisco IOS XR Release 24.2.1

Resolved Caveats

There are no resolved caveats in this release.

Open Caveats

There are no open caveats in this release.

Related Documentation

The documentation related to installation and management of the Cisco Routed PON Solution is as follows:

Document Name	Description
Cisco Routed PON Deployment Guide	Refer to this document understand and deploy the Cisco Routed PON solution.
Cisco Routed PON Installation Guide	Refer to this document to install the various components of the Cisco Routed PON solution such as the PON Manager, the MongoDB database, and the PON Controller. This document also contains various sizing requirements for the components along with the complete steps to install the components.

Document Name	Description
Cisco Routed PON Manager User Guide	Refer to this document to understand the configuration, security features, and usage information for the PON Manager.
Cisco Routed PON REST API Developer Guide	Refer to this document to understand the architecture and design of the Application Programming Interface (API), the structure of the REST endpoints, request, and response formats, and reference and usage information for the REST API.
Cisco Routed PON Netconf Server ConfD Addendum	Refer to this document to deploy the ConfD implementation of the Netconf Server. This supplement provides an overview of architecture, installation instructions, configuration and server administration information for the ConfD based Netconf Server.
Cisco Routed PON Whitepaper	Refer to this document to understand Cisco's approach to the Routed PON Solution.
Cisco 10G Routed PON Modules Data Sheet	Refer to this document for the product specifications, dimensions, and warranty information of the Cisco Routed PON.
Cisco Routed Passive Optical Network Controller Vulnerabilities	Refer to this document for information on vulnerabilities related to the Cisco Routed PON Controller.

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