



Cisco ONS 15454 SDH MSPP Release 7.0

Product Overview

The Cisco® ONS 15454 Multiservice Provisioning Platform (MSPP) provides a solid foundation for building service provider or enterprise optical transport networks for delivering data, voice, and video services. The Cisco ONS 15454 SDH MSPP offers the following capabilities:

- Scalable platform supporting networks from STM-1 (155 Mbps) to STM-64 (10 Gbps) plus 32-channel DWDM capabilities
- Comprehensive multiservice interface offerings to support TDM, Ethernet, storage, and data application needs
- Robust design to support carrier-class deployments
- Comprehensive, multilayer management capabilities enabled through the Cisco Transport Controller craft management system, Transaction Language One (TL-1) interface, Simple Network Management Protocol (SNMP), and Cisco Transport Manager element management system with northbound interfaces to network management and operational support systems.

New Features

Table 1 and Table 2 outline new hardware and software features provided by the Cisco ONS 15454 SDH MSPP Release 7.0.

Table 1. Cisco ONS 15454 SDH MSPP 7.0 Hardware Features

Feature	Description
4-Port Gigabit Ethernet CE1000 card	Standards-based GE transport card utilizing Generic Framing Procedure (GFP) encapsulation and High-Order Virtual Concatenation (HO VCAT) circuit provisioning.
12-Port STM-1E Interface card	Enables support for electrical STM-1 service interfaces for improved economics.
STM-1E Interface FMEC	Enables the termination of protected and unprotected electrical STM-1 services on the Cisco ONS 15454 SDH.

Table 2. Cisco ONS 15454 SDH MSPP 7.0 Software Features

Feature	Description
VC12 circuit squelching	Allows avoidance of Low-Order VC-12 circuits misconnections with MS-SPR topologies.

For more detailed information, please see the release notes for the Cisco ONS 15454 SDH MSPP available at: http://cisco.com/en/US/products/hw/optical/ps2006/prod_release_notes_list.html#anchor2.

Cisco ONS 15454 SDH Software Release 7.0 features are incremental additions to the Cisco ONS 15454 SDH MSPP. Previously supported Cisco ONS 15454 SDH MSPP hardware and software features will continue to be supported unless specified in the release notes, user documentation, or a previously announced end-of-sale product bulletin.

Cisco IOS Software Release Information

The Cisco ONS 15454 ML-Series line cards, which use Cisco IOS® Software to deliver Layer 2 and Layer 3 functions, are provisioned through the Cisco IOS Software command-line interface (CLI). Cisco IOS Software Release 12.2(29)SV(fc2) is integrated into Cisco ONS 15454 Software Release 7.0, enabling a single, unified software image for installation and operation. The Cisco IOS Software image is not upgradeable independently from Cisco ONS 15454 SDH MSPP Software.

For details about the capabilities offered by the Cisco IOS Software release on the Cisco ONS 15454 ML-Series cards, review the Cisco ONS 15454 Software Release 7.0 user documentation, available at:

http://cisco.com/en/US/products/hw/optical/ps2006/products_installation_and_configuration_guides_list.html.

Upgrade Paths

Direct software upgrades to Cisco ONS 15454 SDH Release 7.0 are supported from Cisco ONS 15454 SDH Release 4.x.x, 5.x.x, 6.0.x, and 6.1.x if the system is presently operating with the Cisco ONS 15454 Timing, Communications, and Control Version 2 (TCC2) card. For details on the upgrade procedures, please review the appropriate upgrade guide at:

http://cisco.com/en/US/products/hw/optical/ps2006/prod_installation_guides_list.html#anchor1.

Compatibility Information

Table 3 outlines the Cisco ONS 15454 SDH system deployment requirements for hardware and software functions being announced within this bulletin.

Table 3. Cisco ONS 15454 SDH System Requirements

Feature	Cisco ONS 15454 SDH Software	Cisco ONS 15454 SDH TCC Card	Cisco ONS 15454 SDH Cross-Connect Card	Cisco ONS 15454 SDH Shelf Assembly
Cisco ONS 15454 SDH Software Release 7.0	Release 7.0	TCC2 or TCC2P	XC-VXC-10G XC-VXL-2.5 XC-VCL-10G	SA-ETSI
4-Port Gigabit Ethernet CE1000 card	Release 7.0	TCC2 or TCC2P	XC-VXC-10G	SA-ETSI
12-Port STM-1E Interface card	Release 7.0	TCC2 or TCC2P	XC-VXC-10G XC-VXL-2.5 XC-VCL-10G	SA-ETSI
STM-1E Interface FMEC	Release 7.0	TCC2 or TCC2P	XC-VXC-10G XC-VXL-2.5 XC-VCL-10G	SA-ETSI

Before inserting a new node into an operating network, all existing Cisco ONS 15454 nodes connected with active optical multiplex section-data-communication-channel (MSDCC) interfaces should be upgraded to a consistent level of system software to ensure proper operation.

Availability

The Cisco ONS 15454 SDH MSPP products outlined in Table 4 are currently orderable with software shipments starting January 18, 2006. Contact your Cisco Systems® sales representative for more details.

Ordering Information

Table 4. Ordering Information for Cisco ONS 15454 SDH MSPP Products

Part Number	Description
15454E-R7.0.0SWK9	System software, SDH, Release 7.0.0, Cisco ONS 15454, CD-ROM
SF15454E-R7.0.0K9	System software, SDH, Release 7.0.0, Cisco ONS 15454, ordered with TCC2/TCC2P card (preloaded)
15454E-LIC-R7.0.0K9	Software upgrade license, SDH, used for upgrading an existing node to another system software release, ordered using assemble-to-order (ATO) part number 15454E-LIC-UPG
15454E-DOC7.0.0PP	User document, Cisco ONS 15454, SDH, Release 7.0.0, ONS 15454, paper version
15454E-DOC7.0.0CD	User document, Cisco ONS 15454, SDH, Release 7.0.0, CD-ROM version
15454E-STM1E-12	STM-1 electrical interface card, 12 circuits
15454E-STM11-FMEC	STM-1 electrical FMEC card, 1:1 protection or unprotected
15454-CE-1000-4	Standards-based GE transport card utilizing GFP encapsulation and HO VCAT circuit provisioning

For More Information

For more information about the Cisco ONS 15454 SDH MSPP, visit <http://cisco.com/en/US/products/hw/optical/ps2006/ps2008/index.html> or contact your local account representative.

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