



Cisco ONS 15454 SONET 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, video, and storage services. The Cisco ONS 15454 SONET MSPP offers the following capabilities:

- Scalable platform supporting networks from OC-3 (155 Mbps) to OC-192 (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 SONET MSPP Release 7.0.

Table 1. Cisco ONS 15454 SONET 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.

Table 2. Cisco ONS 15454 SONET MSPP 7.0 Software Features

Feature	Description
VT1.5 circuit squelching	Allows avoidance of Low-Order VT1.5 circuits misconnections with bidirectional line switched ring (BLSR) topologies.

For more detailed information, please see the release notes for the Cisco ONS 15454 SONET MSPP available at:

http://cisco.com/en/US/products/hw/optical/ps2006/prod_release_notes_list.html#anchor3.

Cisco ONS 15454 SONET Software Release 7.0 features are incremental additions to the Cisco ONS 15454 SONET MSPP. Previously supported Cisco ONS 15454 SONET 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 SONET 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 SONET Release 7.0 are supported from Cisco ONS 15454 SDH [NOTE: do you mean SONET?] 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#anchor2.

Compatibility Information

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

Table 3. Cisco ONS 15454 SONET System Requirements

Feature	Cisco ONS 15454 SONET Software	Cisco ONS 15454 SONET TCC Card	Cisco ONS 15454 SONET Cross-Connect Card	Cisco ONS 15454 SONET Shelf Assembly
Cisco ONS 15454 SONET Software Release 7.0	Release 7.0	TCC2 or TCC2P	XC-VXC-10G, XC-10G, XC-VT ²	Any ¹
4-Port Gigabit Ethernet CE1000 card	Release 7.0	TCC2 or TCC2P	XC-VXC-10G, XC-10G, XC-VT ²	Any ¹

1. Cross-connect card dependent

2. Card can only be installed in slots 5, 6, 12, and 13

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

Availability

The Cisco ONS 15454 SONET 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 SONET MSPP Products

Part Number	Description
15454-R7.0.0SWK9	System software, SONET, Release 7.0.0, Cisco ONS 15454, CD-ROM
SF15454-R7.0.0K9	System software, SONET, Release 7.0.0, Cisco ONS 15454, ordered with TCC2/TCC2P card (preloaded)
15454-LIC-R7.0.0K9	Software upgrade license, SONET, used for upgrading an existing node to another system software release, ordered using assemble-to-order (ATO) part number 15454-LIC-UPG
15454-DOC7.0.0PP	User document, Cisco ONS 15454, SONET, Release 7.0.0, paper version
15454-DOC7.0.0CD	User document, Cisco ONS 15454, SONET, Release 7.0.0, CD-ROM version
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 SONET MSPP, visit <http://cisco.com/en/US/products/hw/optical/ps2006/ps2010/index.html> or contact your local account representative.

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