



Software Release 4.5.0 for the Cisco ONS 15454 SONET Multiservice Transport Platform

Cisco Systems® announces the Cisco® ONS 15454 Software Release 4.5.0, which provides intelligent dense wavelength-division multiplexing (DWDM) capabilities within a multiservice transport platform (MSTP). Cisco ONS 15454 Software Release 4.5.0 focuses on simplifying metropolitan (metro) and regional DWDM network deployment and operations as well as supporting new wavelength service capabilities.

Cisco ONS 15454 Software Release 4.5.0—New Hardware Features and Benefits

Table 1 outlines the new hardware features supported by Cisco ONS 15454 Software Release 4.5.0.

Table 1 New Cisco ONS 15454 Release 4.5.0 Hardware Features

Feature	Benefit
Comprehensive portfolio of optical filters	Enables flexible user deployments to meet the wide range of DWDM applications, access, metro core and regional, and node types, including hub, optical add/drop, and line amplifier
Low-noise, fast-transient-suppression optical amplifiers	Improves network reach and performance while supporting network expansions and changes
Optical service channel with user data channel	Enables advanced networking capabilities, including automatic topology discovery, A-to-Z wavelength path provisioning, synchronization distribution, network configuration, management, and network-wide optical power control, optimization, and safety
Flexible wavelength services card	Delivers metro services from 155 Mbps to 2.4 Gbps with protection options to support various service-level agreement (SLA) requirements

Cisco ONS 15454 Software Release 4.5.0—New Software Features and Benefits

Table 2 outlines the marquis-software-based features supported by Cisco ONS 15454 Software Release 4.5.0.

Table 2 Cisco ONS 15454 Release 4.5.0 Features and Benefits

Feature	Benefit
Intelligent, network-based optical power management	Lowers operational expenses by simplifying the setup and maintenance of the DWDM network
Integrated craft management tool	With embedded browser-based graphical user interface, supports the activation, maintenance, and A-to-Z wavelength provisioning of the DWDM network; complements Cisco Transport Manager element-management tool for end-to-end portfolio management



More detailed information can be found in the Cisco ONS 15454 Software Release 4.5.0 release notes, available at: http://cisco.com/en/US/products/hw/optical/ps2006/prod_release_notes_list.html.

Compatibility Information

Table 3 outlines the system requirements for hardware and software related to Cisco ONS 15454 Software Release 4.5.0.

Table 3 Hardware and Software Compatibility Matrix

Product Code	Cisco ONS 15454 Software	Processor	Cross-Connect	Shelf Assembly
Cisco ONS 15454 Release 4.5.0 Software	Releases 4.1.x and 4.5.0	TCC2	Not applicable	ANSI
15454-32MUX-O	Release 4.5.0	TCC2	Not applicable	ANSI
15454-32DMX-O	Release 4.5.0	TCC2	Not applicable	ANSI
15454-4MD-xx.x	Release 4.5.0	TCC2	Not applicable	ANSI
15454-AD-1C-xx.x	Release 4.5.0	TCC2	Not applicable	ANSI
15454-AD-2C-xx.x	Release 4.5.0	TCC2	Not applicable	ANSI
15454-AD-4C-xx.x	Release 4.5.0	TCC2	Not applicable	ANSI
15454-AD-1B-xx.x	Release 4.5.0	TCC2	Not applicable	ANSI
15454-AD-4B-xx.x	Release 4.5.0	TCC2	Not applicable	ANSI
15454-OPT-PRE	Release 4.5.0	TCC2	Not applicable	ANSI
15454-OPT-BST	Release 4.5.0	TCC2	Not applicable	ANSI
15454-OSCM	Release 4.5.0	TCC2	Not applicable	ANSI
15454-OSC-CSM	Release 4.5.0	TCC2	Not applicable	ANSI

Cisco ONS 15454 Software Release 4.5.0 brings new MSTP intelligent DWDM features to the Cisco ONS 15454 system. Release 4.5 supports only the new DWDM features and functions. Previously released Cisco ONS 15454 MSPP features and functions will not be supported in Release 4.5.

A planned future software load, Release 4.6 will integrate the previous multiservice-provisioning-platform (MSPP) capabilities with the new MSTP capabilities. For MSPP features, users should continue to deploy Release 4.1.x or previous software releases. Cisco ONS 15454 MSTP hardware and software features supported in Release 4.5.0 are detailed in the Cisco ONS 15454 Software Release 4.5.0 release notes.

If interconnecting a Cisco ONS 15454 Release 4.5 MSTP node to a previous Cisco ONS 15454 MSPP node via section-data-communication-channel (SDCC) active optical interfaces, the Cisco ONS 15454 MSPP node—and all attached SDCC interconnected nodes—should be operating on Release 4.1.x software.



Availability

Equipment for Cisco ONS 15454 Software Release 4.5.0 will be orderable on June 25, 2003, with equipment shipment beginning approximately 30 days after orderability. Contact your Cisco sales representative for more details.

Ordering Information

The Cisco ONS 15454 Software Release 4.5.0 can be ordered from your Cisco sales representative or through the Cisco.com online ordering tool. Table 4 lists specific product codes and descriptions.

Table 4 Product Part Numbers and Descriptions

Product Name	Product Description
Optical Transmission Elements	
15454-OSCM=	Optical service channel card, 1510 nm, LC connector, includes two 2-meter LC/LC fiber-optic cables, SONET system
15454-OSC-CSM=	Optical service channel card, integrated combiner/separators, 1510 nm, LC connector, includes two 2-meter LC/LC fiber-optic cables, SONET system
15454-OPT-PRE=	Optical preamplifier, C-band, 64 channel, 50-GHz compatible, LC connector, midstage access, includes two 2-meter 5-dB attenuated LC/LC fiber-optic cables, SONET system
15454-OPT-BST=	Optical booster amplifier, C-band, 64 channel, 50-GHz compatible, LC connector, includes two 2-meter LC/LC fiber-optic cables, SONET system
15454-32MUX-O=	32-channel multiplexer card, 100 GHz, monitor port, 8-fiber multipath push-on (MPO) connector, SONET system
15454-32DMX-O=	32-channel demultiplexer card, 100 GHz, 8-fiber MPO connector, SONET system
15454-4MD-xx.x=	4-channel multiplexer and demultiplexer card, 100 GHz, LC connector, includes two 2-meter LC/LC fiber-optic cables, SONET system
15454-AD-1C-xx.x=	1-channel optical add/drop multiplexer, 100 GHz, LC connector, includes two 2-meter LC/LC fiber-optic cables, SONET system
15454-AD-2C-xx.x=	2-channel optical add/drop multiplexer, 100 GHz, LC connector, includes two 2-meter LC/LC fiber-optic cables, SONET system
15454-AD-4C-xx.x=	4-channel optical add/drop multiplexer, 100 GHz, LC connector, includes two 2-meter LC/LC fiber-optic cables, SONET system
15454-AD-1B-xx.x=	1-band optical add/drop multiplexer, 100 GHz, LC connector, includes two 2-meter LC/LC fiber-optic cables, SONET system
15454-AD-4B-xx.x=	4-band optical add/drop multiplexer, 100 GHz, LC connector, includes two 2-meter LC/LC fiber-optic cables, SONET system
Service Interfaces	
15454-MR-L1-xx.x ¹	100-Mbps to 2.5-Gbps multirate transponder card, Small Form-Factor Pluggable (SFP) client module slot, 100-GHz ITU wavelength, unprotected DWDM line with LC connector, SONET system; fiber jumper cables and SFPs ordered separately
15454-MRP-L1-xx.x ²	100-Mbps to 2.5-Gbps multirate transponder card, SFP client module slot, 100-GHz ITU wavelength, protected DWDM line with LC connector, SONET system; fiber jumper cables and SFPs ordered separately



Table 4 Product Part Numbers and Descriptions

Product Name	Product Description
Pluggable Optics Modules (for service interfaces)	
15454-SFP3-1-IR	OC-3/STM-1/D1-SDI SFP, intermediate reach, 1310 nm, single mode, LC connector
15454-SFP12-4-IR	OC-12/STM-4 SFP, intermediate reach, 1310 nm, single mode, LC connector
15454-SFP-OC48-IR	OC-48 SFP, intermediate reach, 1550 nm, single mode, LC connector
15454-SFP-200	Enterprise Systems Connection (ESCON) SFP, short reach, 1310 nm, multimode, LC connector
15454-SFP-GE+-LX	Gigabit Ethernet, Fibre Channel/FICON (1 and 2 Gbps) and high-definition television (HDTV) SFP, long reach, 1310 nm, single mode, LC connector
15454-SFP-GEFC-SX	Gigabit Ethernet and Fibre Channel/FICON (1 and 2 Gbps) SFP, short reach, 850 nm, multimode, LC connector
Miscellaneous	
15454-MPO-8LC-2=	Cable assembly, MPO 8-fiber ribbon to 8 x LC/PC, single mode, 2.3 meters
15454-LC-LC-2=	Cable assembly, LC/PC to LC/PC, single mode, 2.0 meters, 2-mm jacket
15454-AIR-RAMP=	Air ramp, ancillary, ANSI 19- or 23-in. installations, 1.75-in. high (1 rack unit)
15454-PP-64-LC=	Fiber patch panel shelf, LC-to-LC connectors, 32 duplex (64) LC adapters, supports up to 8 ribbon cable assemblies (1 MPO to 8 LC) plus 64 2-mm cable assemblies, includes 2 MPO to 8 x LC/PC 2.3-meter cable assemblies (uninstalled), 19- or 23-in. mounting
15454-FBR-STRG=	Fiber storage shelf, supports up to 64 2.0-meter-long 2-mm fiber cables, 19- or 23-in. mounting
Software and User Documentation	
15454-R4.5.OSWCD	System software, Release 4.5.0, Cisco ONS 15454, CD-ROM, SONET system
SF15454-R4.5.0	System software, Release 4.5.0, Cisco ONS 15454, ordered with TCC2 card (preloaded)
15454-DOC4.5.OPP	User document, Cisco ONS 15454, Release 4.5.0, Cisco ONS 15454, paper version, SONET system
15454-DOC4.5.OCD	User document, Release 4.5.0, Cisco ONS 15454, CD-ROM version, SONET system

1. Wavelength plan is outlined later in this document. Cisco online lead-time tool is available for selection of orderable wavelengths.

2. Orderable wavelengths can be found on the pricing tool located at Cisco.com: <http://www.cisco.com/en/US/partner/ordering/index.shtml>.

Note: The systems and products described in this document are subject to new product hold, a status assigned to all new items that have not yet transacted through the Cisco manufacturing system and may not be available. Thus, product delivery dates can vary past the quoted first-customer-ship (FCS) date.

Cisco ONS 15454 products may be ordered through the Cisco Networking Products Marketplace online order entry tool. The product names and new Common Language Equipment Identifier (CLEI) codes for the Cisco ONS 15454 products are available online at:

http://cisco.com/cgi-bin/front.x/clei/code_search.cgi

For More Information

For more information about the Cisco ONS 15454 platform, visit:

<http://cisco.com/en/US/products/hw/optical/ps2006/index.html>

To order Cisco equipment, visit:

<http://www.cisco.com/en/US/ordering/index.shtml>



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