



# Software Release 4.1.0 for the Cisco ONS 15454 SONET Multiservice Provisioning Platform

Cisco Systems® announces the Cisco® ONS 15454 Software Release 4.1.0 for the industry-leading Cisco ONS 15454 SONET Multiservice Provisioning Platform (MSPP). Cisco ONS 15454 Software Release 4.1.0 focuses on enabling greater data service capabilities along with driving greater transport bandwidth scalability.

Cisco ONS 15454 Software Release 4.1.0—New Hardware Features and Benefits

Table 1 outlines the new hardware features supported by Cisco ONS 15454 Software Release 4.1.0.

Table 1 New Cisco ONS 15454 Software Release 4.1.0 Hardware Features

Feature	Benefit
<b>Coarse wavelength-division multiplexing (CWDM) and dense wavelength-division multiplexing (DWDM) Gigabit interface converter (GBIC) optical module qualification on G-Series Ethernet cards</b>	Enables a cost-effective delivery mechanism for scaling bandwidth for metropolitan (metro) Ethernet access architectures

Cisco ONS 15454 Software Release 4.1.0—New Software Features and Benefits

Table 2 outlines the marquis-software-based features supported by Cisco ONS 15454 Software Release 4.1.0.

Table 2 Cisco ONS 15454 Software Release 4.1.0 Features and Benefits

Feature	Benefit
<b>Resilient Packet Ring (RPR) support on ML-Series cards</b>	Provides additional bandwidth efficiencies through reuse and oversubscription capabilities
<b>Advanced quality-of-service (QoS) capability on ML-Series cards</b>	Allows creation of service tariffs supporting burstable traffic (peak information rate [PIR]) while guaranteeing committed-information-rate (CIR) QoS
<b>Gigabit Ethernet transponder</b>	Allows the G-Series cards to operate as a transponder to allow wideband Gigabit Ethernet signals from routers, switches, and servers to be cost-effectively transported using CWDM or DWDM wavelengths
<b>Provisionable flow control on G-Series Ethernet cards</b>	Allows tailoring of Gigabit Ethernet service transport demands utilizing the G-Series Gigabit Ethernet card
<b>Facility loopback support on G-Series Ethernet cards</b>	With addition of facility loopback capability, allows improved troubleshooting for Gigabit Ethernet services

More detailed information can be found in the Cisco ONS 15454 Software Release 4.1.0 release notes, available at:



[http://www.cisco.com/en/US/products/hw/optical/ps2006/prod\\_release\\_notes\\_list.html](http://www.cisco.com/en/US/products/hw/optical/ps2006/prod_release_notes_list.html)

Cisco ONS 15454 Software Release 4.1.0 features are incremental additions to the Cisco ONS 15454 platform. Previously supported Cisco ONS hardware and software features will continue to be supported unless specified in the Cisco ONS 15454 Software Release 4.1.0 release notes.

#### Cisco IOS Software Release Information

The Cisco ONS 15454 ML-Series cards use Cisco IOS<sup>®</sup> Software to deliver Layer 2 and Layer 3 functions; they are provisioned via the Cisco IOS Software command-line interface. Cisco IOS Software Release 12.1(14)EY is integrated into Cisco ONS 15454 Software Release 4.1.0, enabling a single, unified software image for installation and operation. The Cisco IOS Software image is not upgradable independently from Cisco ONS 15454 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 4.1.0 user documentation, available at:

[http://www.cisco.com/en/US/products/hw/optical/ps2006/prod\\_installation\\_guides\\_list.html](http://www.cisco.com/en/US/products/hw/optical/ps2006/prod_installation_guides_list.html)

#### Compatibility Information

Table 3 outlines the system requirements for hardware and software related to Cisco ONS 15454 Software Release 4.1.0.

Table 3 Hardware and Software Compatibility Matrix

Product Code	Cisco ONS 15454 Software	Processor	Cross-Connect	Shelf Assembly
<b>Cisco ONS 15454 Release 4.1.0 Software</b>	Release 4.1.0	TCC+ or TCC2	Any	Any (cross-connect dependent)
<b>CWDM and DWDM GBICs for G1K-4 Gigabit Ethernet card*</b>	Release 4.1.0	TCC+ or TCC2	Any	Any (cross-connect dependent)

\* Latest hardware revision required.

All other previously released Cisco ONS 15454 interface and common-control hardware is compatible with this software load. Before inserting a new node into an operating ring or linear network, all existing Cisco ONS 15454 nodes connected via optical section-data-communication-channel (SDCC) interfaces should be upgraded to a consistent level of system software to ensure proper operation.

#### Availability

Equipment for Cisco ONS 15454 Software Release 4.1.0 will be orderable on July 30, 2003, with equipment shipment beginning approximately 30 days after orderability. Contact your Cisco sales representative from more details.



## Ordering Information

The Cisco ONS 15454 Software Release 4.1.0 can be ordered from your Cisco sales representative or through the Cisco.com online ordering tool. Specific product codes and descriptions are detailed in Table 4.

Table 4 Product Part Numbers and Descriptions

Product Number	Product Description
<b>15454-GBIC-xx.x<sup>1</sup></b>	1000BASE DWDM GBIC, single mode, 32 wavelengths, SC connectors
<b>15454-GBIC-xxxx<sup>1</sup></b>	1000BASE CWDM GBIC, single mode, 8 wavelengths, SC connectors
<b>15454-GBIC-RCV</b>	1000BASE receive-only GBIC, single mode, SC connectors, G-series cards only
<b>15454-R4.1.0SWCD</b>	Cisco ONS 15454 Software Release 4.1.0, SONET system
<b>SF15454-R4.1.0</b>	Cisco ONS 15454 Software Release 4.1.0 preloaded on TCC cards and control cards, SONET system
<b>15454-LIC-UPG</b>	Assemble-to-order (ATO) part number for purchase of software license for upgrading an existing node to another system software release
<b>15454-DOC4.1.0PP</b>	User documentation (in paper format) for Cisco ONS 15454 Software Release 4.1.0, SONET system
<b>15454-DOC4.1.0CD</b>	User documentation (in CD-ROM format) for Cisco ONS 15454 Software Release 4.1.0, SONET system

1. Orderable wavelengths can be found on the pricing tool located at Cisco.com:  
<http://www.cisco.com/en/US/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://tools.cisco.com/emco/pcnclei/prsc>

## For More Information

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

<http://www.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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