

# Cisco ONS 15454

## Release 3.2.0

Telecommunications service providers, as well as enterprise customers are constantly in search of new solutions for satisfying their users demands for higher bandwidths, more reliable services, and lower costs. As the leader in evolutionary optical networking, the Cisco ONS 15454 platform continues to develop solutions to better fulfill these requirements. The ONS 15454 leverages Synchronous Optical Network (SONET) technology to support the need for network reliability while integrating Gigabit Ethernet service interfaces for high bandwidth transport and a lower interface cost versus current TDM and POS interfaces. The ONS 15454 supports all the legacy TDM interfaces enabling the service provider and enterprise user to deliver today's services but positioning their network to support carrier-class Ethernet services when the demand arises.

The Cisco ONS 15454 platform is engineered to be simple to configure, order, install and provision, lowering long-term cost of ownership and operation. Thus, the Cisco ONS 15454 solution provides carriers with an Internet-scale, carrier-class optical transport system designed to meet the growing bandwidth demands.

ONS 15454 Release 3.2.0  
Hardware

*Gigabit Ethernet Transport Card, G1000-4*—The new Cisco ONS 15454 Gigabit Ethernet Transport card, model G1000-4, introduces “carrier-class” private line Gigabit Ethernet to service provider and enterprise customer networks. The G1000-4 card enables point-to-point transport of Gigabit Ethernet services over a SONET protected network, providing sub 50ms restoration intervals in the event of a network irregularity. Additional G1000-4 capabilities provide client interface protection further strengthening the Gigabit Ethernet interconnection. Gigabit

Ethernet transport circuits can be scaled from 50Mbps to 1.0Gbps, allowing the efficient use of network resources. With the ONS 15454's integrated GUI, circuits are created on a network view via simple, but powerful, point and click, A to Z, provisioning engine.

ONS 15454 Release 3.2.0  
Software Features

*SDH tunneling of AU3 mapped STM-n interfaces*—The ONS 15454 expands its present SDH AU4 based tunneling capabilities to support AU3 mapped signals. ONS 15454 optical interface cards, including 155M, 622M, 2.4G and 10G, can be provisioned to transport AU3 or AU4 mapped SDH signals.

*Byte transparency (K3)*—This new feature provides additional BLSR networking flexibility in mixed vendor networks. The ONS 15454 system allows the user to re-map the K3 byte to alternative byte locations supported by third party vendor equipment.



*OC48 Any-slot card operation in high-speed slot with XC or XC-VT cross-connect cards*—OC48 any-slot cards are now compatible with XC or XC-VT cards when operated in the high-speed card slots and Release 3.2 software. Previously, the OC48 any-slot cards required the XC-10G cross-connect card. This capability enables user to deploy only a single card type for all system configurations.

*SNMP set for RMON provisionability*—The ONS 15454 Ethernet cards now provide the capability for external RMON management systems to provision select RMON MIBs.

For more detailed information, please refer to the R3.2.0 Release Notes available on-line at the following URL.

<http://www.cisco.com/univercd/cc/td/doc/product/ong/15400/454relnt/index.htm>

#### Release Deployment Recommendation

The ONS 15454 Release 3.2.0 system software is recommended for all new network installations.

#### Backward Compatibility

The Cisco ONS 15454 R3.2.0 software requires the use of the TCC+ version timing, communications and control card. Nodes deployed using older versions of TCC cards should be updated prior to upgrading to this or future software releases. 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 SDCC interfaces should be upgraded to a consistent level of system software to ensure proper operation.

#### Availability

The Cisco ONS 15454 Release 3.2.0 system software is orderable now with shipments beginning March 2002.

## Ordering Information

The Cisco ONS 15454 Release 3.2.0 hardware and system software can be ordered from your Cisco sales representative or through Cisco's on-line ordering tool. Specific product codes and descriptions are detailed below.

Product Code	Description
15454-G1000-4	Gigabit Ethernet card, four ports, pt-to-pt transport, STS48 transport capacity, GBICs ordered separately, ONS 15454
15454-R3.2.0SW/CD	Release 3.2.1 Feature Package, ONS 15454, CD/ROM
15454-DOC3.2.0CD	R3.2.0 user documentation, CD/ROM format, ONS 15454
15454-DOC3.2.0PP	R3.2.0 user documentation, paper format, ONS 15454
15454-LIC-UPG	Upgrade license, ONS 15454, one required for each deployed network element being upgraded, includes back-up system software on CD/ROM
15454-GBIC-SX*	1000Base-SX, GBIC optics module, 850nm, SC connector
15454-GBIC-LX*	1000Base-LX, GBIC optics module, 1310nm, SC connector
15454-GBIC-ZX* (planned)	1000Base-ZX, GBIC optics module, 1550nm, SC connector
15454-GBIC-CX* (planned)	1000Base-CX, GBIC module, copper, RJ45 connector

\*Cisco Certified GBTCS

## More Information

For more information on the ONS 15454, go to [www.cisco.com/warp/public/cc/cisco/mkt/optical/optrans/prodlit/index.shtml](http://www.cisco.com/warp/public/cc/cisco/mkt/optical/optrans/prodlit/index.shtml).

To order Cisco Equipment, please visit our web site at [http://www.cisco.com/public/ordering\\_info.shtml](http://www.cisco.com/public/ordering_info.shtml)



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