



## About this Manual

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### Note

The terms "Unidirectional Path Switched Ring" and "UPSR" may appear in Cisco literature. These terms do not refer to using Cisco ONS 15xxx products in a unidirectional path switched ring configuration. Rather, these terms, as well as "Path Protected Mesh Network" and "PPMN," refer generally to Cisco's path protection feature, which may be used in any topological network configuration. Cisco does not recommend using its path protection feature in any particular topological network configuration.

This manual provides reference information for the Cisco ONS 15454 SDH.

To install, turn up, provision, and maintain a Cisco ONS 15454 SDH node and network, refer to the *Cisco ONS 15454 SDH Procedure Guide*.

For alarm clearing, general troubleshooting, and hardware replacement procedures, refer to the *Cisco ONS 15454 SDH Troubleshooting Guide*.

## Revision History

Date	Notes
04/06/2007	Revision History Table added for the first time.
10/23/2007	Updated About this Manual chapter.

## Document Organization

The following table describes the contents of the *Cisco ONS 15454 SDH Reference Guide*.

**Table 1** Cisco ONS 15454 SDH Reference Manual Chapters

Title	Summary
<a href="#">Chapter 1, "Shelf and FMEC Hardware"</a>	Includes descriptions of the rack, ferrites, power and ground, fan-tray assembly, air filter, card slots, cable, cable connectors, and cable routing
<a href="#">Chapter 2, "Common Control Cards"</a>	Includes descriptions of the TCC2, XC10G, and XCVXL cards

**Table 1** Cisco ONS 15454 SDH Reference Manual Chapters (continued)

Title	Summary
Chapter 3, “Electrical Cards”	Includes descriptions of E1-N-14, E1-42, E3-12, DS3i-N-12, STM1E-12, FMEC cards, MIC cards, card temperature ranges, and compatibility
Chapter 4, “Optical Cards”	Includes descriptions of the STM1-4, STM1-8, STM-4, STM4-4, STM-16, and STM-64 cards, as well as card temperature ranges and card compatibility
Chapter 5, “Ethernet Cards”	Includes descriptions of the G1000-4, E100T-12, E100T-G, E1000-2, and E1000-2-G cards and gigabit interface converters
Chapter 6, “Card Protection”	Includes electrical and optical card protection methods
Chapter 7, “Cisco Transport Controller Operation”	Includes information about CTC installation, the CTC window, computer requirements, software versions, and database reset and revert
Chapter 8, “Security and Timing”	Includes user set up and security, and node/network timing
Chapter 9, “Circuits and Tunnels”	Includes VC4, VC3, and VC12, bidirectional or unidirectional, revertive or non-revertive, electrical or optical, multiple and path trace circuit information
Chapter 10, “SDH Topologies”	Includes the SDH configurations used by the ONS 15454 SDH; including MS-SPRs, SNCs, linear ADMs, subtending rings, and optical bus configurations, as well as information about upgrading optical speeds within any configuration
Chapter 11, “IP Networking”	Includes IP addressing scenarios and information about IP networking with the ONS 15454 SDH
Chapter 12, “Performance Monitoring”	Includes performance monitoring statistics for all cards
Chapter 13, “Ethernet Operation”	Includes Ethernet applications for the G series and E series Ethernet cards
Chapter 14, “SNMP”	Explains Simple Network Management Protocol (SNMP) as implemented by the Cisco ONS 15454 SDH.

## Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What’s New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation, at:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

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