



Preface

This section explains the objectives, intended audience, and organization of this guide and describes the conventions that convey instructions and other information.

Objectives

This guide provides a detailed description of the northbound Common Object Request Broker Architecture (CORBA) interfaces supported by Cisco Prime Optical. This guide serves as a reference for developers of Operations Support System (OSS) applications that interface with Cisco Prime Optical GateWay/CORBA 9.6.

Use this guide to:

- Learn about the northbound CORBA interfaces supported by Cisco Prime Optical 9.6
- Understand the input parameters, output parameters, and attributes associated with Cisco Prime Optical GateWay/CORBA

Audience

The primary audience for this guide includes network operations personnel and system administrators. This guide assumes the reader is familiar with the following products and topics:

- Cisco ONS 15000-series products
- Cisco Carrier Packet Transport (CPT) System
- Basic internetworking terminology and concepts
- Network topology and protocols
- Microsoft Windows Vista, Windows 2000 Professional, Windows XP Professional, and Windows Server 2003 Terminal Server
- Sun Microsystems Solaris administration
- Oracle database administration
- Object Management Group (OMG) CORBA, notification service, and naming service
- Telecommunication Management Network (TMN) architecture model

Conventions

This guide uses the following conventions:

Item	Convention
Commands and keywords	boldface font
Displayed session and system information	screen font
Information that the user must enter	boldface screen font
Variables that the user must supply	<i>italic screen font</i>
Menu items and button names	boldface font
Selecting a menu item	Option > Network Preferences



Caution

Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.



Note

Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.



Timesaver

Means *the described action saves time*. You can save time by performing the action described in the paragraph.



Tip

Means *the information will help you solve a problem*. The tips information might not be troubleshooting or even an action, but could be useful information, similar to a Timesaver.

Related Documentation



Note

You can access the most current Prime Optical documentation online at http://www.cisco.com/en/US/products/ps11670/tsd_products_support_series_home.html.

The Prime Optical documentation set comprises the following guides:

- [Release Notes for Cisco Prime Optical 9.6](#)—Describes the caveats for Prime Optical.
- [Cisco Prime Optical 9.6 Installation Guide](#)—Explains how to install Prime Optical and how to upgrade from previous releases.
- [Cisco Prime Optical 9.6 User Guide](#)—Describes how to use the Prime Optical software, which consists of user applications and tools for network discovery, network configuration, connection management, fault management, system administration, and security management.
- [Cisco Prime Optical 9.6 GateWay/CORBA User Guide and Programmer Manual](#)—This guide.

- *Cisco Prime Optical 9.6 Database Schema*—Describes the database schema that Prime Optical uses to store information in a Structured Query Language (SQL) database such as the Oracle database. The document is designed for users who need to create their own reports without using Prime Optical.
- *Cisco Prime Optical 9.6 High Availability Installation Guide*—Explains how to install Prime Optical in a high availability (HA) environment.



Note To obtain the *Cisco Prime Optical 9.6 High Availability Installation Guide*, contact your Cisco account representative.

- *Cisco Prime Optical 9.6 ML Provisioning Methodology*—Describes the methodology that Prime Optical uses to provision ML-series cards.
- *Cisco Prime Optical 9.6 Basic External Authentication*—Describes how Prime Optical supports basic external authentication.
- *Migration Matrix for Service Pack Releases*—Describes the migration matrix for service pack releases.

The following table lists the related NE hardware documentation.

Table 1 **Related Cisco NE Documentation**

Cisco Product	Document Title
Cisco Carrier Packet Transport (CPT) System	<ul style="list-style-type: none"> • <i>Cisco CPT Hardware Installation Guide</i> • <i>Cisco CPT Configuration Guide</i> • <i>Cisco CPT Command Reference Guide</i> • <i>Release Notes for Cisco CPT</i>
ONS 15216	<ul style="list-style-type: none"> • <i>Cisco ONS 15216 EDFA Operations Guide</i> • <i>Cisco ONS 15216 EDFA2 Operations Guide</i> • <i>Cisco ONS 15216 EDFA3 Operations Guide</i> • <i>Cisco ONS 15216 FlexLayer User Guide</i> • <i>Cisco ONS 15216 OSC-1510 User Guide</i> • <i>Cisco ONS 15216 System Dispersion Compensation Unit User Guide</i> • <i>Installing Cisco ONS 15216 100 GHz DWDM Filters</i> • <i>Installing Cisco ONS 15216 OADMs</i> • <i>Release Notes for the Cisco ONS 15216 EDFA</i> • <i>Release Notes for the Cisco ONS 15216 OADM</i> • <i>Upgrade Procedures for the Cisco ONS 15216 EDFA2</i>
ONS 15305 (non-CTC-based)	<ul style="list-style-type: none"> • <i>Cisco ONS 15305 Installation and Operations Guide</i> • <i>Cisco ONS 15305 Quick Installation Guide</i> • <i>Release Notes for the Cisco ONS 15305</i>
ONS 15305 (CTC-based)	<ul style="list-style-type: none"> • <i>Cisco ONS 15305 Cisco Transport Controller Operations Guide, R5.0</i> • <i>Release Notes for Cisco ONS 15305 Release 3.0</i>

Table 1 **Related Cisco NE Documentation (continued)**

Cisco Product	Document Title
ONS 15310 CL and ONS 15310 MA	<ul style="list-style-type: none"> • <i>Cisco ONS 15310 Network Defaults</i> • <i>Cisco ONS 15310-CL and Cisco ONS 15310-MA Ethernet Card Software Feature and Configuration Guide</i> • <i>Cisco ONS 15310-CL and Cisco ONS 15310-MA Procedure Guide</i> • <i>Cisco ONS 15310-CL and Cisco ONS 15310-MA Reference Manual</i> • <i>Cisco ONS 15310-CL and Cisco ONS 15310-MA Troubleshooting Guide</i> • <i>Release Notes for the Cisco ONS 15310</i>
ONS 15327	<ul style="list-style-type: none"> • <i>Cisco ONS 15327 Procedure Guide</i> • <i>Cisco ONS 15327 Reference Manual</i> • <i>Cisco ONS 15327 Software Upgrade Guide</i> • <i>Cisco ONS 15327 Troubleshooting Guide</i> • <i>Cisco ONS 15454 and Cisco ONS 15327 TL1 Command Guide</i> • <i>Cisco ONS 15454 and Cisco ONS 15327 TL1 Command Quick Reference Guide</i> • <i>Release Notes for the Cisco ONS 15327</i>
ONS 15454 SDH	<ul style="list-style-type: none"> • <i>Cisco ONS 15454 SDH Procedure Guide</i> • <i>Cisco ONS 15454 DWDM Procedure Guide</i> • <i>Cisco ONS 15454 SDH Reference Manual</i> • <i>Cisco ONS 15454 SDH Software Upgrade Guide</i> • <i>Cisco ONS 15454 SDH Troubleshooting Guide</i> • <i>Cisco ONS 15454 SONET/SDH ML-Series Multilayer Ethernet Card Software Feature and Configuration Guide</i> • <i>Release Notes for the Cisco ONS 15454 SDH</i>
ONS 15454 SONET	<ul style="list-style-type: none"> • <i>Cisco ONS 15454 and Cisco ONS 15327 TL1 Command Guide</i> • <i>Cisco ONS 15454 and Cisco ONS 15327 TL1 Command Quick Reference Guide</i> • <i>Cisco ONS 15454 Procedure Guide</i> • <i>Cisco ONS 15454 Reference Manual</i> • <i>Cisco ONS 15454 Software Upgrade Guide</i> • <i>Cisco ONS 15454 SONET/SDH ML-Series Multilayer Ethernet Card Software Feature and Configuration Guide</i> • <i>Cisco ONS 15454 Troubleshooting Guide</i> • <i>Release Notes for the Cisco ONS 15454</i>

Table 1 **Related Cisco NE Documentation (continued)**

Cisco Product	Document Title
ONS 15530	<ul style="list-style-type: none"> • <i>Cisco ONS 15530 Configuration Guide and Command Reference</i> • <i>Cisco ONS 15530 Hardware Installation Guide</i> • <i>Cisco ONS 15530 MIB Quick Reference</i> • <i>Cisco ONS 15530 Optical Transport Turn-up and Test Guide</i> • <i>Cisco ONS 15530 Planning and Design Guide</i> • <i>Cisco ONS 15530 System Alarms and Error Messages</i> • <i>Network Management for the Cisco ONS 15530</i> • <i>Quick Reference for the Cisco ONS 15530 TL1 Commands</i> • <i>Release Notes for the Cisco ONS 15530</i>
ONS 15540 ESP	<ul style="list-style-type: none"> • <i>Cisco ONS 15540 ESP Configuration Guide and Command Reference</i> • <i>Cisco ONS 15540 ESP Hardware Installation Guide</i> • <i>Cisco ONS 15540 ESP MIB Quick Reference</i> • <i>Cisco ONS 15540 ESP Planning and Design Guide</i> • <i>Cisco ONS 15540 ESP Troubleshooting Guide</i> • <i>Network Management for the Cisco ONS 15540 ESP</i> • <i>Optical Transport Turn-Up and Test Guide</i> • <i>Regulatory Compliance and Safety Information for the Cisco ONS 15500 Series</i> • <i>Release Notes for the Cisco ONS 15540 ESP</i> • <i>ROMMON and Functional Image Release Notes</i>
ONS 15540 ESPx	<ul style="list-style-type: none"> • <i>Cisco ONS 15540 ESPx Cleaning Procedures for Fiber Optic Connections</i> • <i>Cisco ONS 15540 ESPx Configuration Guide and Command Reference</i> • <i>Cisco ONS 15540 ESPx Hardware Installation Guide</i> • <i>Cisco ONS 15540 ESPx MIB Quick Reference</i> • <i>Cisco ONS 15540 ESPx Planning and Design Guide</i> • <i>Cisco ONS 15540 ESPx System Alarms and Error Messages</i> • <i>Network Management for the Cisco ONS 15540 ESPx</i> • <i>Optical Transport Turn-Up and Test Guide</i> • <i>Quick Reference for the Cisco ONS 15540 ESP and Cisco ONS 15540 ESPx TL1 Commands</i> • <i>Regulatory Compliance and Safety Information for the Cisco ONS 15500 Series</i> • <i>Release Notes for the Cisco ONS 15540 ESPx</i> • <i>ROMMON and Functional Image Release Notes</i>

Table 1 **Related Cisco NE Documentation (continued)**

Cisco Product	Document Title
ONS 15600 SDH	<ul style="list-style-type: none"> • <i>Cisco ONS 15600 SDH Procedure Guide</i> • <i>Cisco ONS 15600 SDH Reference Manual</i> • <i>Cisco ONS 15600 SDH TLI Test Access</i> • <i>Cisco ONS 15600 SDH Troubleshooting Guide</i> • <i>Release Notes for the Cisco ONS 15600 SDH</i>
ONS 15600 SONET	<ul style="list-style-type: none"> • <i>Cisco ONS 15600 Procedure Guide</i> • <i>Cisco ONS 15600 Reference Manual</i> • <i>Cisco ONS 15600 TLI Command Guide</i> • <i>Cisco ONS 15600 Troubleshooting Guide</i> • <i>Release Notes for the Cisco ONS 15600</i>

The following related documentation may also be used as reference:

- Telcordia GR-253-CORE: Synchronous Optical Network (SONET) Transport Systems: Common Generic Criteria
- Telcordia GR-815-CORE: Generic Requirements for Network Elements/Network Systems (NE/NS) Security
- Telcordia GR-820-CORE: Generic Digital Transmission Surveillance
- Telcordia GR-831-CORE: Operations Applications Messages
- Telcordia GR-2998-CORE: Generic Requirements for Wavelength Division Multiplexing (WDM) Element Management Systems
- Telcordia GR-3000-CORE: Generic Requirements for SONET Element Management Systems
- ITU-T G.774: Synchronous Digital Hierarchy (SDH)—Management information for the network element view
- ITU-T G.784: Synchronous Digital Hierarchy (SDH) management
- ITU-T G.826: Error performance parameters and objectives for international, constant bit rate digital paths at or above the primary rate
- ITU-T G.829: Error performance events for SDH multiplex and regenerator sections
- ITU-T G.831: Management Capabilities of Transport Networks based on the synchronous digital hierarchy (SDH)
- ITU-T G.872: Architecture of optical transport networks
- ITU-T M.3010: Principles for a Telecommunications management network
- ITU-T M.3100: Generic network information model
- ITU-T M.3400: TMN Management Functions
- ITU-T X.721: Information technology—Open Systems Interconnection—Structure of management information: Definition of management information
- ITU-T X.731: Information technology—Open Systems Interconnection—Systems Management: State management function

- ITU-T X.733: Information technology–Open Systems Interconnection–Systems Management: Alarm reporting function
- ITU-T X.734: Information technology–Open Systems Interconnection–Systems Management: Event report management function
- ITU-T X.735: Information technology–Open Systems Interconnection–Systems Management: Log control function
- ITU-T X.736: Information technology–Open Systems Interconnection–Systems Management: Security alarm reporting function
- TMF 513: TM Forum Business Agreement, version 1.02
- TMF 513: Multi Technology Network Management Business Agreement, version 2.0
- TMF 608: Multi Technology Network Management Information Agreement, version 0.4
- TMF 608: Multi Technology Network Management Information Agreement, version 2.0
- TMF 814: Multi Technology Network Management Solution Set, version 0.2
- TMF 814: Multi Technology Network Management Solution Set, version 2.0
- TMF 814A: Multi Technology Network Management Solution Set, TM Forum Implementation (IS) Template Guidelines, version 2.0

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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