



About this Guide

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

This section provides the following information:

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Document Objectives

This user guide explains how to design networks using the MetroPlanner design tool for the Cisco ONS 15454 system. It contains information about how to design an optical network, the types of available topologies, and some example designs. Use this user guide in conjunction with the appropriate publications listed in the [Related Documentation](#) section.

Audience

This publication is intended for experienced network system engineers who are responsible for planning and ordering equipment for Cisco optical networking systems.

Document Organization

This Cisco MetroPlanner DWDM Operations Guide, Release 2.5 is organized into the following chapters:

- [Chapter 1, “Overview”](#) provides a list of features, an overview of the network design process, a description of the internal architecture, and the MetroPlanner procedural flow.

- [Chapter 2, “Designing Networks with MetroPlanner”](#) provides instructions for using the MetroPlanner tool to create a network design, and information about how to adjust and optimize design components, and how to generate build reports and bills of materials.
- [Chapter 3, “Modeled Network Examples”](#) provides examples of typical optical networks you can model using MetroPlanner.
- [Appendix A, “Card Types”](#) provides a listing of card types and the corresponding CCO card description.
- [Appendix B, “Troubleshooting”](#) describes problems you may encounter using MetroPlanner, and their possible solutions.

Related Documentation

Use this Cisco MetroPlanner DWDM Operations Guide, Release 2.5 in conjunction with the following referenced publications:

- *Cisco ONS 15454 Procedure Guide, R4.7*—Provides procedures to install, turn up, provision, and maintain a Cisco ONS 15454 node and network.
- *Cisco ONS 15454 Reference Manual, R4.7*—Provides reference material for Cisco ONS 15454 nodes and networks.
- *Cisco ONS 15454 Troubleshooting Guide, R4.7*—Provides general troubleshooting procedures, alarm descriptions, and performance monitoring and SNMP information.
- *Cisco ONS 15454 and Cisco ONS 15327 TLI Command Guide, Release 4.7*—Provides test access TLI commands, configurations, and parameter types.
- *Release Notes for the Cisco ONS 15454, R4.7*—Provides caveats, closed issues, and new feature and functionality information.

Document Conventions

This publication uses the following conventions:

Convention	Application
boldface	Commands and keywords in body text.
<i>italic</i>	Command input that is supplied by the user.
[]	Keywords or arguments that appear within square brackets are optional.
{ x x x }	A choice of keywords (represented by x) appears in braces separated by vertical bars. The user must select one.
Ctrl	The control key. For example, where Ctrl + D is written, hold down the Control key while pressing the D key.
screen font	Examples of information displayed on the screen.

Convention**Application****boldface screen font**

Examples of information that the user must enter.

< >

Command parameters that must be replaced by module-specific codes.

**Note**

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

**Caution**

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

**Warning****IMPORTANT SAFETY INSTRUCTIONS**

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. To see translations of the warnings that appear in this publication, refer to the translated safety warnings that accompanied this device.

Note: SAVE THESE INSTRUCTIONS

Note: This documentation is to be used in conjunction with the specific product installation guide that shipped with the product. Please refer to the Installation Guide, Configuration Guide, or other enclosed additional documentation for further details.

Obtaining Optical Networking Information

This section contains information that is specific to optical networking products. For information that pertains to all of Cisco, refer to the [Obtaining Documentation and Submitting a Service Request](#) section.

Where to Find Safety and Warning Information

For safety and warning information, refer to the *Cisco Optical Transport Products Safety and Compliance Information* document that accompanied the product. This publication describes the international agency compliance and safety information for the Cisco ONS 15454 system. It also includes translations of the safety warnings that appear in the ONS 15454 system documentation.

Cisco Optical Networking Product Documentation CD-ROM

Optical networking-related documentation, including Cisco ONS 15xxx product documentation, is available in a CD-ROM package that ships with your product. The Optical Networking Product Documentation CD-ROM is updated periodically and may be more current than printed documentation.

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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