

Advanced Services' Designing and Selling Cisco ONS 15454 Multiservice Transport Platform Solutions (Release 8.5)



This lab-intensive course introduces you to the Cisco® ONS 15454 Multiservice Transport Platform (MSTP) dense wavelength-division multiplexing (DWDM) Release 8.5. You will learn the important theoretical concepts that underlie DWDM and how they are put to use in selling the Cisco ONS 15454 MSTP system. You will gain practical knowledge and skills to successfully run the Cisco TransportPlanner R8.5 software. You will be able to determine the right MSTP cards to use based on customer requirements. In six hands-on labs, you will learn to configure linear networks with OC-48 and Ethernet client circuits, an Optical Service Channel monitor node, a long linear with mixed client demands, rings with protected circuits, Ethernet and time-division multiplexing (TDM) overlay networks, and a mesh network with protected circuits. This course combines lecture materials and hands-on labs throughout to make sure that you are able to successfully design a Cisco ONS 15454 MSTP network.

Duration

Two days.

Target Audience

This course is intended for system engineers, including designers and support staff, who are involved with sales and design of the Cisco ONS 15454 MSTP system.

Course Objectives

Upon completion of this course, you should be able to:

- List and describe the major features and benefits of the Cisco ONS 15454 MSTP
- Download and activate Cisco TransportPlanner Release 8.5.1
- Input the required nodes and services according to customer requirements
- Input the requirements for unprotected and protected SONET/SDH client circuits using direct and transponder applications

- Input the requirements for unprotected and protected data circuits using direct and transponder applications
- Input the requirements for short linear, long linear, and ring topologies
- Input the requirements for Ethernet overlay networks and TDM overlay networks
- Input the requirements for the multiring (mesh) network

Course Prerequisites

Although there are no course prerequisites, a knowledge of DWDM and of the Cisco ONS 15454 product would be very useful.

Students must bring their laptop computer (2 Gigabit processor, 1 Gigabit of memory required)

Course Outline

- DWDM Overview
- Building DWDM Solutions
- Cisco ONS 15454 MSTP Overview
- Cisco ONS 15454 MSTP Architecture
- Cisco ONS 15454 MSTP Line Cards
- Cisco ONS 15454 MSTP Network Design
- Cisco ONS 15454 MSTP Node Provisioning
- Cisco ONS 15454 MSTP Protection Schemes
- Cisco ONS 15454 MSTP Overlay Networks
- Cisco ONS 15454 MSTP Multiring
- Managing Cisco ONS 15454 MSTP

Lab Outline

- Lab 1: Linear Design with OC-48/STM-16
- Lab 2: Linear Design with Ethernet
- Lab 3: Long Linear with Mixed Demands
- Lab 4: Ring with Protected Circuits
- Lab 5: Ring with Ethernet Overlay and TDM Overlay
- Lab 6: Mesh Network with Protected Circuits

Lab Topology

The labs are performed using Cisco TransportPlanner 8.5.1 software on the student's laptop. The results of the lab are transportable with the student.

Registration Information

For more information about schedules and registration for this course, contact aeskt_registration@cisco.com.

For More Information

For more information about Advanced Services education course offerings, including custom training options, as well as Advanced Services curriculum planning services and the Advanced Services technical knowledge library (TKL), refer to the Advanced Services education website at www.cisco.com/go/ase.



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