



# Cisco Self-Study: Building Cisco Metro Optical Networks (METRO)

*Dave Warren, Dennis Hartmann*

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Plan, design, and configure high-speed fiber-optic networks

Coverage includes:

- Configuring ONS 15454 and ONS 15327 platforms
- Architecture for building Metropolitan Ethernet Transparent LAN Services (TLS)
- Packet over SONET (PoS) network design, configuration, and verification
- Inner workings of dense wavelength division multiplexing (DWDM), including operability with the ONS 15216 product family
- Principles of Dynamic Packet Transport (DPT)
- SONET background, including structures, components, and network design
- Bonus case studies, which challenge you to select equipment and design a metro optical network

Fiber-optic networking has several significant advantages over traditional wired and wireless networks: optical signals can travel much farther than electrical signals, are more secure, are resistant to electromagnetic interference, and have the potential to provide bandwidth in the terabits per second range (1000 Gbps).

Service providers must satisfy the always-increasing networking demands of customers while keeping costs to a minimum. Optical networks must meet the challenge of supporting multiple types of transmissions including voice, video, and data traffic. Although time-division multiplexing (TDM) has provided a growth path for services, it is more constrained than IP + Optical strategies like the Cisco Dynamic Packet Transport (Resilient Packet Ring). The Cisco Systems® end-to-end IP + Optical networking strategy provides an intelligent converged network in which optical infrastructures can be used to their fullest potential.

While most reference books focus on the theory involved in SONET and optical infrastructures, *Cisco Self-Study: Building Cisco Metro Optical Networks (METRO)* focuses on the practical application of planning and configuring optical networks that involve SONET, DWDM, Metropolitan Ethernet, Packet over SONET, and Dynamic Packet Transport (Resilient Packet Ring).

*Cisco Self-Study: Building Cisco Metro Optical Networks (METRO)* is part of a recommended learning path from Cisco Systems that can include simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit [www.cisco.com/go/authorizedtraining](http://www.cisco.com/go/authorizedtraining).

This volume is in the Certification Self-Study Series offered by Cisco Press. Books in this series provide officially developed training solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations.

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