



## Cisco Self-Study:

Building Cisco Metro Optical Networks (METRO)

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

Edited By: Dave Warren Dennis Hartmann

# <u>Cisco Self Study Building Cisco Metro Optical Networks</u> <u>Metro</u>

Djafar K. Mynbaev,Lowell L. Scheiner

## **Cisco Self Study Building Cisco Metro Optical Networks Metro:**

Cisco Self-Study - Building Cisco Metro Optical Networks (METRO) Dave Warren, Dennis Hartmann, 2008-05 Plan design and configure high speed fiber optic networksCoverage 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 R 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 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 158705070607312003 Cisco Self-study, 2004 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 This volume is in the Certification Self Study Series offered by Cisco Press Books in this series provide officially deve Implementing Cisco Unified Communications Manager, Part 1 (CIPT1) (Authorized Self-Study Guide) Dennis Hartmann, 2008-06-23 Foundation learning for CIPT1 exam 642 446 Dennis Hartmann CCIE No 15651 Implementing Cisco Unified Communications Manager Part 1 CIPT1 is a Cisco authorized self paced learning tool for CCVP foundation learning This book provides the knowledge necessary to install configure and deploy a Cisco Unified Communications solution based on Cisco Unified Communications Manager the call routing and signaling component of the Cisco Unified Communications solution By reading this book you will gain an understanding of deploying a Cisco Unified Communications Manager to support single site centralized distributed and hybrid call processing models This book focuses on Cisco Unified Communications Manager Release 6 x You will learn how to install and configure Cisco Unified Communications Manager power over Ethernet switches and gateways using MGCP You will also learn how to build a scalable dial plan for on net and off net calls The dial plan chapters of the book cover call routing call coverage digit manipulation class of service and call coverage components This book will teach you how to implement media resources LDAP directory integration and various endpoints including Skinny Client Control Protocol SCCP and Session Initiation Protocol SIP Cisco Unified Video Advantag endpoint configuration is covered in addition to Cisco Unity voice mail integration and basic voice mail box creation Various user features are discussed including Presence Whether you are preparing for CCVP certification or simply want to gain a better understanding of Cisco Unified Communications Manager fundamentals you will benefit from the foundation information presented in this book Implementing Cisco Unified Communications

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