

QoS for IP/MPLS Networks

5 Day Course

Locations: Mex, D.F.

Date:

Who Needs to Attend

Engineers and designers responsible for designing, implement, and troubleshoot Quality of Service (QoS) on a network IP/MPLS.

Audience Prerequisites

Experience with basic ability to configure routers and LAN switches security features.

CCNA (recommended but not required).

BSCI (recommended but not required).

BGP (recommended but not required).



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 - Integrated Services
 - Differentiated Services
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- Traffic-Management Mechanisms
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 - Traffic Policing
 - Traffic Shaping
 - Congestion Management
 - Active Queue Management
 - Link Fragmentation and Interleaving
 - Header Compression
- QoS Signaling
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Chapter 2 MPLS TE Technology Overview

- MPLS TE Introduction
- Basic Operation of MPLS TE
 - Link Information Distribution
 - Path Computation
 - TE LSP Signaling
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- DiffServ-Aware Traffic Engineering
 - Class-Types and TE-Classes
 - Bandwidth Constraints
- Fast Reroute
 - Link Protection
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 - Classification Component
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- Modular QoS Command-Line Interface
 - Hardware Support for the MQC
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 - Hierarchical Configurations

Chapter 4 Cisco MPLS Traffic Engineering

- Basic Operation of MPLS TE
 - Enabling MPLS TE
 - Defining a TE Tunnel Interface
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- DiffServ-Aware Traffic Engineering (DS-TE)
- Fast Reroute (FRR)

Chapter 5 Backbone Infrastructure

- Backbone Performance
- Performance Requirements for Different Applications
 - Segmentation of Performance Targets
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 - DiffServ Backbone
 - DiffServ Backbone with MPLS TE
 - DiffServ Backbone with DiffServ-Aware Traffic

QoS for IP/MPLS Networks course will help you facilitate the design, deployment, and operation of QoS Networks. The course provides a thorough explanation of the technology behind MPLS QoS and related technologies, including the different design options you can use to build an MPLS network with strict performance requirements. Discusses MPLS Traffic Engineering (MPLS TE) as a tool to complement MPLS QoS and enhance the performance characteristics of the network.