

Optimizing Converged Cisco Networks

Describe Cisco VoIP Implementations

- Introducing VoIP Networks
- Digitizing and Packetizing Voice
- Encapsulating Voice Packets for Transport
- Calculating Bandwidth Requirements
- Implementing Voice Support in an Enterprise Network

Introduction to IP QoS

- Introducing QoS
- Identifying Models for Implementing QoS
- Methods for Implementing QoS

Implement the DiffServ QoS Model

- Introducing the DiffServ Model
- Introducing Classification and Marking
- Using NBAR for Classification
- Introducing Queuing Implementations
- Configuring Class Based Weighted Fair Queuing (CBWFQ) and Low Latency Queuing (LLQ)
- Introducing Congestion Avoidance
- Introducing Traffic Policing and Shaping
- WAN Link Efficiency Mechanisms
- Implementing QoS Pre-Classify
- Deploying End-to-End QoS

Implement AutoQoS

- Introducing AutoQoS
- Mitigating Common AutoQoS Problems

Wireless Security

- Introducing 802.1x
- Configuring Encryption and Authentication on Lightweight Access Points
- Basic WLAN Management