مالتی مدیای
Cisco VoIP & QoS
به زبان فارسی (1 – ۲۴ ساعت)

۱DVD شامل:
۱۷ بخش آموزشی با ۷۱ درس به زبان انگلیسی و تشريح فارسی QoS مختص به VoIP و ۸ بخش سناریوهای Case Study

شامل: Utilities Folder

اطلاعات، مقالات و های مربوط به E-book

لایسنس، مراقبت‌های مربوط به Cisco

System Requirements
- Windows XP with SP 2
- 256 MB RAM
- CD-ROM or DVD
- 1024 x 768 High Resolution Video Card & Monitor
Introduction to Cisco VoIP

Chapter-1  Introduction to Telephony Network

1.1  Telephony Network
1.2  PBX vs. Key System
1.3  Signaling
1.4  VoIP Network Components and Advantages

Chapter-2  Digitizing Voice

2.1  Sampling
2.2  Nyquist Theorem
2.3  Waveform Compression
2.4  Voice Bandwidth Calculation

Chapter-3  Preparing for a VOIP Network

3.1  PBX Reliability
3.2  Reliability vs. Availability
3.3  Replacing PBX Trunks
3.4  Connecting a Router to a Phone Line
3.5  Connecting a Router to a Digital Circuit
3.6  VoIP in the Home

Chapter-4  Cisco Call Manager

4.1  Cisco Call Manager
4.2  CCM Roles and Redundancy
4.3  Placing Cisco CallManagers in the Network
4.4  Partitions and Calling Search Spaces
4.5  Replacing Old Phones with IP Phones
4.6  Selecting Features for IP Phones
4.7  Securing Voice
4.8  Adding Video to Voice Calls
4.9  Cisco Call Manager Express
Chapter-5 Gateway Protocols

5.1 Gateway Protocols
5.2 H.323
5.3 Cisco’s MGCP
5.4 SIP

Chapter-6 Quality of Service

6.1 Effective Bandwidth
6.2 Configuring QoS
6.3 Voice Priority
6.4 Congestion Management
6.5 Policing and Shaping
6.6 Shaping Frame Relay Networks
6.7 Using Compression
6.8 Applying AutoQoS

Chapter-7 Unified Messaging

7.1 Unified Messaging
7.2 Conference Calling
7.3 Call Centers

Cisco VoIP Case Studies

- Chapter-1 VoIP Case Study
- Chapter-2 VoIP Case Study
- Chapter-3 VoIP Case Study
- Chapter-4 VoIP Case Study
- Chapter-5 VoIP Case Study
- Chapter-6 VoIP Case Study
- Chapter-7 VoIP Case Study

Voice Bandwidth Calculators
Quality of Service (QoS)

Chapter 1  Cisco VoIP Implementations

1.1  Introduction to VoIP Networks
1.2  Digitizing & Packetizing Voice
1.3  Encapsulating Voice Packets
1.4  Bandwidth Calculation
1.5  Implementing VoIP Support in Enterprise Network

Chapter 2  IP QoS

2.1  Introduction to QoS
2.2  Identifying and Comparing QoS Models
2.3  QoS Implementation Methods

Chapter 3  Classification, Marking & NBAR

3.1  Classification and Marking
3.2  The DiffServ, DSCP & PHBs
3.3  QoS Service Class, Trust Boundaries & NBAR
3.4  Configuring NBAR using IOS

Chapter 4  Congestion Management and Queuing

4.1  Effective Bandwidth
4.2  Congestion Management and Queuing
4.3  Weighted Fair Queuing
4.4  Class-Based Weighted Fair Queuing
4.5  Low Latency Queuing
4.6  Queuing Comparison
Chapter 5 Congestion Avoidance, Policing, Shaping, and Link Efficiency Mechanisms

5.1 Congestion Avoidance
5.2 Traffic Shaping and Policing
5.3 Link Efficiency Mechanisms

Chapter-6 End-to-End QoS

6.1 Implementing QoS Pre-Classify
6.2 Deploying End-to-End QoS

Chapter 7 Implementing AutoQoS

7.1 Introducing AutoQoS
7.2 Implementing and Verifying AutoQoS
7.3 AutoQoS Shortcoming and Remedies

Chapter 8 Wireless LAN QoS, Security & Management

8.1 Wireless LAN QoS
8.2 Wireless LAN Security
8.3 Wireless LAN Management

Chapter 9 Cisco Special Topics

9.1 Cisco AutoQoS
9.2 Cisco IOS QoS
9.3 Cisco QoS Solutions Configuration Guide
Review Scenarios

- Cisco VoIP Implementations
- IP QoS
- Classification, Marking & NBAR
- Congestion Management and Queuing
- Congestion Avoidance, Policing, Shaping, and Link
- Efficiency Mechanisms
- Implementing QoS Pre-Classify and Deploying
- End-to-End QoS
- Implementing AutoQoS
- Wireless LAN QoS, Security & Management

Cisco VoIP Labs

Lab-1  Placing and Examining VoIP Calls
Lab-2  Configuring CB-WFQ and LLQ Queuing Mechanisms
Lab-3  Configuring Class-Based Header Compression
Lab-4  Configuring LFI

Utilities DVD

- Articles
- Ebooks
- WAN Configuration Review
- Cisco IP Phones
- Cisco Advanced Voice Labs
- Tools
- Whitepaper
- List of Companies