SETC Training Corporate Logo

VOIP Training: The Convergence of Voice & Data Over IP (VOIP101, 4 jours)

Description

The course The Convergence of Voice & Data Over IP (VOIP Training) gives you a wide range of theoretical and practical knowledge in the area of Voice over IP. This course begins with a general discussion of PSTN and VoIP concepts & technologies. The training continues with a detailed exploration of related VoIP technologies and concepts including PSTN, implementation technologies, QoS, IP signaling protocols, SIP and virtual switch controllers.

Tarifs

- Tarification: $3,750/person
- Rabais de 10% lorsque vous inscrivez 3 personnes.

Plan de cours

PSTN and VOIP

- PSTN Basics
- PSTN Services and Applications
- Packet Telephone Network Drivers
- Overview of VOIP
- VOIP Control Layers
- New PSTN Network Infrastructure
- Comparing Enterprise Telephony and PSTN
- Enterprise Telephony Design: PSTN Based vs Private

Essentials of Telephony

- Signaling Overview
- E and M Signaling
- ISBN
- CAS
- QSIG
- DPNSS
- SS7

PSYN Services

- Plain Old Telephony Systems
- Integrated Services Digital Network
- Business Services
- Service Provider Services

VOIP Technology Essentials

- VOIP Benefits and Applications
- The TCP-IP Protocol Stack
- About Subnetting
- About IPv6
- Routing Protocols
- Transport Layer Protocols: UDP versus TCP
- IP and VOIP

The Details of VOIP Technology

- About Delay and Latency
- About Jitter

Pulse Code Modulation
Voice Compression
Echo
Packet Loss
Voice Activity Detection
Digital to Analog Conversion
Tandem Encoding
Transport Protocols: RTP and RUTP
Dial Plan Design
End Office Switch Call Flow versus IP Phone Call
Quality of Service
What is QoS
Edge Functions
Traffic Policing
About Backbone Networks
QoS Best Practices
IP Signaling Protocols
Signaling Protocols Overview
H.323 Protocol Suite
H.323 Call Flows
Session Initiation Protocol
Gateway Control Protocols
the Virtual Switch Controller
Overview
Open Packet Telephony
The Packet Voice Network
Virtual Switch Architecture
Virtual Switch Implementation
VOIP Implementation
Overview of Implementation Steps
Configuration Issues
Applications and Services
A Detailed Case Study