



REFERENCE

PS00TE901US

DELIVERY LANGUAGE

English (course material in English)

DURATION

METHODS

i-learning

12 hours

Virtual self-paced training on the computer. 12 hours before c-learning

c-learning

4 days

Traditional classroom or practical sessions with tutorials (TAP LAB)

v-learning

Tutored virtual training sessions accessible via an internet connection

MAXIMUM NUMBER OF PARTICIPANTS 12

PUBLIC

Presales Engineers, Solution Designers

OBJECTIVES

At the end of the course, the participant will be able to:

- Address a RFP (Request For Proposal) based on a Complex OmniPCX Enterprise Solution and an advanced OmniVista A4760.
- Design an Architecture with Distributed Call Control and VoIP Solution
- Use Traffic calculation tools for dimensioning
- Generate a complex offer using ACTIS
- Quote an OmniVista Suite using ACTIS
- Find appropriate SD specific Documentation & Tools

The participant will learn how to design and quote a standard Solution from end-to-end. A Global Case Study using traffic calculation, recommendations and rules, dimensioning tools and all Presales documents available will be done at the end of the session.

PREREQUISITES

- To have attended the Alcatel-Lucent IP Telephony Essential Presales training course (Ref: PS00TE900US)
- To have attended the 2h Enterprise Security Overview (Free I-learning course 3EY0SA050)
- 3 months minimum on-site practice after the IP Telephony Essential Solution Designer course
- *The participant will bring is own laptop for hands-on, with the latest ACTIS version.*

REQUIRED TECHNICAL CONFIGURATION

For i-learning

Access to the Business Partner Web Site. Internet Explorer version 5.5 or better, Macromedia Flash 7 and Acrobat Reader version 6 or better. Virtual Microsoft Java Machine (MSJVM).



PROGRAM DESCRIPTION

Phase 1: i-learning 12 hours

Mandatory to seat the c-learning Session. This I-Learning session aims to provide enough comprehensive technical knowledge on an advanced OmniPCX Enterprise Solution, Networking, VoIP and Industry Specific Solutions to make the most of the C-Learning session.

Architecture with Distributed Call Control

- Corporate ABC Networking Infrastructure
 - Private Network Configurations and Scalability
 - Private ABC Networks using TDM Leased Lines
 - ABC Virtual Private Network on ISDN Networks
 - VoIP Networking
- ABC Network Features
 - Private Numbering Plan (Moving a User in an ABC Network)
 - Network-Wide Telephone Features (Conferences, DISA, Callback, Forwarding ...)
 - User Group (Associate, Forwarding, Manager-Assistant, Supervision, Hunt Groups, Twin Set)
 - Mobility (DECT Roaming, Remote Forwarding, Substitution, Ubiquity)
 - Centralized or Distributed Attendants
 - Centralized, Distributed or Shared Voice Messaging Systems (A4645, A4645)
 - Adaptive Routing
 - Alternate Route Selection - ARS (Force On-Net, Break Out, Multiple Carrier Selection)
 - Partial Rerouting for External Call forwarding
 - Management (Centralized management, Voice Mail, Alarms; Audit; Broadcast)
- Heterogeneous Networking (QSIG, DPNSS, ISVPN, H323, SIP)

H323 Architecture

- Peer-to-peer networking
- Communication with H323 devices
- Direct RTP
- Integrated GateKeeper

Session Initiation Protocol (SIP) Environment

- Alcatel-Lucent and SIP
 - Marketing SIP
 - SIP and OmniPCX Enterprise
 - Supported SIP Standards
- Integration of SIP End-points
 - Low Cost Compatible SIP End Points (Thomson ST 2030, FCI IP Ranger)
 - Registration
 - Basic SIP Call via the OXE SIP proxy (SIP to SIP, Other to SIP, SIP to Other, Fax Machines)
 - RTP Flow
 - Call made to TDM Trunks
 - Supplementary Services
 - Voice Mail Account
 - Authentication/Verification



- SIP Trunking
 - Public SIP Trunking
 - Private SIP Trunking
- Supported Telephony features & limitations
 - User
 - SIP Public Trunk
 - SIP Private Trunk

Additional IP Services (TFTP, DHCP, AVA, NTP, SNMP, QOS ...)

VoIP Network Compliance Assessment Process

Security

- Available Security Levels(SSH, SSL, 802.1x...)
- Phone Protection against Toll Fraud
- Encryption & Security Modules

OmniVista 4760 Full Pack

- Performance & Traffic Analysis
- VoIP Performance
- Audit
- SIP Device Management
- Network Maintenance
- Topology
- Directory
- OmniVista 4760 MCS Edition

Industry Specific Solutions

- Finance
- Healthcare
- Hospitality
- Local Authorities & Government Agencies

Comprehensive Call Routing

- Call Restriction for Alarms & Emergencies
- Priority Calls
- Multi Level Precedence and Pre-emption...
- Multi-Tenants

Users Profiles

Overview of the Out-of-the-box solutions from Professional Services



Phase 2: c-learning **4 days**

The c-learning Session aims to address a RFP (Request For Proposal) based on a complex OmniPCX Enterprise Solution using all Solution Designers tools available.

The participant will learn how to design a distributed Architecture with distributed Call Control, a VoIP Solution and an and how to quote the solution using ACTIS.

List of topics covered**Architecture with Distributed Call Control**

- Corporate ABC Networking Infrastructure
 - Private Network Configurations and Scalability
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 - Management (Centralized management, Voice Mail, Alarms; Audit; Broadcast)
- Heterogeneous Networking (QSIG, DPNSS, ISVPN, H323, SIP)
- Architecture with Distributed Call Control VERSUS Architecture with Centralized Call Control

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