

avodaq Advanced Training	Service Provider Voice		
Classroom Training	5 Days		

INTRODUCTION

This course covers the PSTN Gateway PGW2200 and how it is used in its call control deployments. Call control deployments include Packet Transit, TDM/TDM grooming, H.323 Signalling Interface (HSI), SIP Gateway and MGCP-Dial termination.

This course includes an extensive lab so that participants have to build up the entire PSTN Gateway PGW2200 Solution with all components. Hands on labs on all elements help the participants to gain a deeper understanding and practical experience with the solutions. PGW2200 provisioning, operation, maintenance and troubleshooting are covered, as well as the configuration and maintenance of the Cisco Signalling Link Terminal (SLT). Related media gateways are configured.

With step-by-step instructions, participants use the Voice Services Provisioning Tool VSPT to create a configuration that includes the above features.

OBJECTIVES

After finishing this course, students will be able to:

- Identify and describe Cisco layered approach to packet telephony architecture
- Describe the PGW2200 switched solutions
- Identify and describe the PGW2200 software components of the call processing system
- Identify and describe the PGW2200 hardware components
- Provision the PGW2200 using either the Man Machine Language (MML) or Voice Services Provisioning Tool (VSPT)
- Provision the MGX Voice gateway or Access Server AS5xx0 using the VSPT
- Describe and provision the Cisco SLT using Cisco IOS
- Provision Number Analysis (Dial Plans)
- Use MML to verify PGW2200 operation
- Demonstrate use of PGW2200, HSI and SIP procedures
- Identify basic solution troubleshooting tools

IMPORTANCE

For the telephony service provider it is very important to be familiar with the complexity of the PGW2200 solutions. Understand the possibilities to build up a wholesale voice infrastructure from scratch.

TARGET AUDIENCE

This course is intended for the following audiences:

- Telephony Service Providers implementing PGW2200 in a call control mode
- Individuals who build Cisco SS7 Interconnect and VoIP Networks for Voice and Dial Traffic

PREREQUISITES KNOWLEDGE

- SS7 familiarity
- Telephony network basics
- Transmission fundamentals
- TCP/IP networking basics
- Experience with Cisco IOS (ICND level)

COURSE OUTLINE

- Introduction to the PGW2200
- VoIP Packet Transit Overview
- Introduction to VSPT
- Setting up the XECfgParm.dat file
- Provisioning the PGW2200 for SS7 Signaling
- Provisioning External Nodes - SLT
- Provisioning External Nodes - Media Gateways
- Provisioning FAS (Facility Associated Signalling) and NFAS (Non Facility Associated Signalling)
- Provisioning Trunks and Routes
- Provisioning Dial Plans
- Operating & Maintaining the PGW2200
- Provisioning the H.323 Signaling Interface (HSI)
- Session Initiation Protocol (SIP)
- Provisioning for Data Termination