

avodaq ADVANCED TRAINING	Service Provider Voice		
Classroom Training	5 Days		

INTRODUCTION

The Cisco PGW2200 Advanced (PGWA) course follows on from our popular PGWC course and it drives advanced configuration steps, routing concepts and enhanced dialplan design. The attendees will spend their time in theory and guided lab sessions to build up practical examples.

This course provides the knowledge and skills required to design/plan complex PGW2200 routing and dialplans with hands-on labs. In this course participants will use MML to configure the above configurations.

OBJECTIVES

Given the prerequisites, upon completion of this course the delegate will be able to:

- Provision and configure PGW solution deployment
- Identify MML and batch processes
- Understand Time Ten DB Provisioning
- Identify Routing Concepts
- Identify Dialplan Verification Tools
- Describe Dialplan basics and analysis
- Understand Number Modification and Normalisation
- Understand Cause Code Analysis
- Understand Default Result Set
- Understand Screening and Black-/Whitelists
- Identify Dial Plan Design with Multiple Dialplan Structure
- Understand Advanced Screening feature for SIP and H.323
- Understand Capabilities about CLIP and CLIR
- Describe Announcement implementation
- Describe Local Number Portability
- Describe Advice of Charge
- Describe INAP capabilities with PGW2200
- Understand Call Limiting
- Understand Least Cost Routing implementation via cron jobs
- Understand PGW2200 capabilities about SIP B2BUA or SIP Proxy mode

IMPORTANCE

The course is a prerequisite for network administrators and technicians involved in designing and integrating complex PGW network environments.

TARGET AUDIENCE

The course provides advanced training for senior level network professionals. Target audience for this course are upcoming PGW experts.

PREREQUISITES KNOWLEDGE

- Qualification to Cisco Certified Network Associate (CCNA) level
- Attendance on PGW 2200 Call Control Course: PGWC
- Voice and VoIP Architectures
- Basic Solaris administration skills
- SS7 and Q.931 Call flow and Operation
- H.323 and SIP Call flow and Operation
- MGCP and Signaling Backhauling as IPFAS, BSMVO and SIGTRAN

COURSE OUTLINE

Module 1: Review and breakdown PGW2200 configuration

- Provisioning via MML and Batch file
- Provisioning of Built-in Times Ten DB

Module 2: Routing Concepts

- Routes and Routelists
- Conditional Routing
- Percentage Routing
- Overload Routing
- Bearer Cap based Routing

Module 3: Detailed PGW 2200 Dialplan

- Dialplan Verification Tools
- Dialplan Basics and analysis
- Number Modification and Normalisation based on trunk groups
- Number Modification and Normalisation based on dialplans
- Cause code analysis
- Rerouting based cause code analysis
- Default Resultset
- Screening and Black/Whitelist
- Dial Plan Design - Multiple Dial Plans
- Advanced Screening
- Calling line presentation and restriction

Module 4: Enhanced Dial Plan Features

- Announcements
- Local Number Portability (LNP)
- Advice of Charge (AoC)
- Intelligent Network Application Part (INAP)

Module 5: Miscellaneous

- Call Limiting used on Signaling Services as well in dialplans
- Least Cost Routing implementation via cron jobs
- SIP Proxy or B2BUA mode