



Deploying Voice Services with the Cisco Catalyst 6500 CMM

Length
1 day

Format
Lecture/lab

Track
Design/
Support

Version
1.0

Course Description

The Cisco Catalyst 6500 Communication Media Module (CMM) provides a modular platform for deploying IP telephony services with a diverse range of customized configurations, including conferencing, transcoding and media termination services.

In this course, you will learn in detail about the architecture, configuration, and troubleshooting of the Catalyst 6500 CMM.

Who Should Attend

This course is designed for experienced Voice Systems Engineers who need to design and implement voice services using the CMM. Experience using Cisco CallManager is required.

Recommended Prerequisites

- CCNP certification or equivalent experience
- CCVP certification or equivalent experience
- Advanced experience with Cisco CallManager administration
- Familiarity with the architecture of the Catalyst 6500 platform

Related Training

- *Cisco Voice Over IP (CVOICE) v4.2*
- *Cisco IP Telephony Part 1 (CIPT1) v4.1*
- *Cisco IP Telephony Part 2 (CIPT2) v4.1*
- *IP Telephony Design (IPTD) v1.0*
- *Implementing Cisco Quality of Service (QOS) v2.1*

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Learning Objectives

After you complete this course, you will be able to:

- Describe the features and functionalities of the Catalyst 6500 Communication Media Module
- Identify the hardware modules and features supported on the CMM with the 6T1,6E1, 24FXS, and ACT adapters
- Describe DSP Provisioning requirements on the WS-SVC-CMM-6T1/6E1 and ACT
- Configure the CMM and Cisco CallManager to provide basic VoIP services and media resources
- Configure the CMM for initial gateway-to-switch communications
- Configure the communications path from the ACT-to-CMM communications
- Configure the CMM to operate as a MGCP, H323, SIP and SIP/H323 Gateway
- Configure common PSTN and PBX connections
- Configuring Analog lines for phones, fax, and modem use
- Configure Ad-hoc Conferencing and Transcoding (MTP) on the CMM and in Cisco CallManager



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Course Outline

Lesson 1: Introducing the Communication Media Module

- CMM Overview
- Benefits for using the CMM
- System Software, Memory and Supervisor Hardware Overview
- CMM Hardware and Voice Modules
- Hot Swappable CMM
- CMM and the WS-X6608-T1/E1
- CMM Switch Connectivity
- DSP Resources
- PSTN and PBX Connectivity
- Analog Connectivity with CMM
- CMM Voice Port Tuning
- CMM Integration with Cisco CallManager

Lesson 2: Configuring the Communication Media Module

- CMM Initial Configuration
- Configuring the Ad-Hoc Conference and Transcoding (ACT) on the CMM
- Configuring the CMM to operate as a MGCP, H.323, SIP, and SIP/H.323 Gateway
- Configure Common PSTN and PBX Circuits
- Configure the CMM for 24FXS Analog Line Support
- Configuring DSP Farms on the CMM and in Cisco CallManager
- Configure SRST on the CMM
- Upgrading the CMM IOS
- Troubleshooting the CMM

Course Labs

- Lab 1: Initial CMM Configuration
- Lab 2: Configure the CMM as a MGCP Gateway
- Lab 3: Configure a PRI PSTN Connection
- Lab 4: Configure Two Analog Ports on the CMM
- Lab 5: Configure Media Resources on the CMM and in Cisco CallManager
- Lab 6: Adjust Audio Quality on CMM Analog Ports Using Cisco CallManager



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