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**Learning Style:** Virtual Classroom

**Technology:** Cisco

**Difficulty:** Intermediate

**Course Duration:** 3 Days

## Cisco Meeting Server Advanced (COLLAB3501)



### About this course:

In this 3-day course Cisco Meeting Server Advanced (COLLAB350) v1.0, you will learn advanced techniques in installing, troubleshooting, and maintaining a single server and single server split deployment of Cisco Meeting Servers.

The recently purchased Acano collaboration hardware and software includes video and audio-bridging technology that allows customers to connect video systems from multiple vendors across both cloud and hybrid environments. Cisco has incorporated Acano collaboration technologies into the new Meeting Server tool.

## **Course Objective:**

Upon completion of this course, the learner should be able to meet the following objectives:

- Cisco Meeting Server API commands
- Scalable and resilient deployments
- Customization
- Recording

## **Audience:**

The primary audience for this course is as follows:

- Channel partners and reseller engineers installing, configuring, and maintaining scalable and resilient deployments of Cisco Meeting Server
- Channel partners and reseller engineers providing presales support for scalable and resilient Cisco Meeting Server deployments
- Customer engineers supporting scalable and resilient Cisco Meeting Server deployments

## **Prerequisite:**

The knowledge and skills that a learner should have before attending this course are as follows:

- Cisco Meeting Server Intermediate (COLLAB250)

## **Course Outline:**

### **Module 1: Reviewing Cisco Meeting Server Intermediate**

- Component parts of a Cisco Meeting Solution
- Configuration steps for a Cisco Meeting Solution

### **Module 2: APIs**

- Purpose of APIs
- Benefits of APIs
- Types of APIs
- Function of the GET, POST, PUT, and DELETE commands

### **Module 3: Configuring Software with an API**

- How a user can interact with software using an API
- Download and install Chrome Postman
- Other API software
- Download the Cisco Meeting Server API guide

## **Module 4: Configuring Spaces with the Cisco Meeting Server API**

- Cisco Meeting Server API structure
- Use Chrome Postman for information on calls and spaces with the GET command
- Use Chrome Postman to post a new call space with the POST command
- Use Chrome Postman to place changes in a space, including adding a member, with the PUT command
- Use Chrome Postman to delete a space with the DELETE command

## **Module 5: Customization Configuration**

- Create and modify a user profile and assign users
- Create and modify a dual-tone multifrequency (DTMF) profile and apply to a user profile
- Modify the interactive voice response (IVR), color scheme, and background

## **Module 6: Planning a Resilient and Scalable Cisco Meeting Server Deployment**

- Resilient server solutions
- Scalable server solutions
- Geographically dispersed configurations and GeoDNS
- Domain Name System (DNS) records required for a resilient and scalable solution
- Certificate requirements for a resilient and scalable solution

## **Module 7: Configuring a Database Cluster**

- Relationship between cluster master and cluster slaves in a database cluster
- Certificate requirements for a secure database cluster
- Configure the certificates for a database cluster
- Configure a database cluster

## **Module 8: Configuring a Call Bridge Cluster**

- Relationship between the Call Bridge and the Database
- How cross-cluster spaces behave
- Configure certificates for Call Bridge clustering
- Storage of configuration when entering with the API and the individual web interfaces for Lightweight Directory Access Protocol (LDAP) and Call Bridge clustering
- Configure a Call Bridge Cluster
- Connect XMPP server to multiple Call Bridges

## **Module 9: Configuring Load Balancers and Trunks**

- Relationship between the XMPP server, Trunk and Load Balancer
- Configure certificates for multiple trunks and load balancers
- Configure multiple Trunks to multiple Load Balancers

## **Module 10: Configuring Multiple Web Bridges**

- Relationship between multiple Web Bridges and Call Bridges
- Internal and external DNS records support for both internal and external Web Bridges
- Configure certificates for multiple Web Bridges
- Configure multiple Web bridges
- Connect multiple Call Bridges to multiple Web Bridges

## **Module 11: Configuring Multiple TURN Servers**

- Relationship between multiple TURN servers and multiple Call Bridges
- Configure certificates for multiple TURN servers
- Configure multiple TURN servers
- Connect multiple Call Bridges to multiple TURN servers

## **Module 12: Configuring Multiple Recorders**

- Features of the recording capability
- Software, hardware, and licensing requirements for recording
- DNS records
- Configure the Recorder
- Relationship between multiple Recorders and multiple Call Bridges
- Configure a Call Bridge to use a Recorder
- Configure certificates for multiple Recorders servers
- Configure multiple Recorder servers
- Connect multiple Call Bridges to multiple Recorder servers

## **Module 13: Integrating with a Resilient and Scalable Cisco Meeting Server Deployment**

- Integration with Cisco TelePresence Video Communication Server (VCS) or Cisco Unified Communications Manager and multiple Call Bridges
- Integration with Cisco Expressway technology and multiple Call Bridges
- Integration with Microsoft Skype for Business and multiple Call Bridges
- Integration with Cisco TelePresence Management Suite and multiple Call Bridges

## **Module 14: Deploying an H.323 Gateway**

- Cisco preferred architecture for H.323 and Session Initiation Protocol (SIP) interoperability
- Functionality of the Cisco Meeting Server H.323 gateway
- Configuration the Cisco Meeting Server H.323 gateway

## **Module 15: Multitenancy Options**

- Purpose of the multitenancy capabilities
- Options for multitenancy capabilities on the Cisco Meeting Server

## **Module 16: Customization Options**

- Options available to customize Cisco Meeting Apps
- License keys required for customization
- Web Server requirements for customization
- Options available to customize recorded messaging
- Customization options available for invitation text

## **Lab Outline**

- Lab 1: Single-Server Deployment
- Lab 2: API Introduction
- Lab 3: Customization
- Lab 4: Database Cluster Configuration
- Lab 5: Call Bridge Cluster Configuration
- Lab 6: Multiple-Trunk and Load-Balancer Configuration
- Lab 7: Multiple Web Bridge Configuration
- Lab 8: Multiple TURN Server Configuration
- Lab 9: Multiple Recorder Configuration
- Lab10: Integrating with VCS and Microsoft Skype for Business in a Multiple Call Bridge Installation