# VTVS2 - Implementing Cisco TelePresence Video Solutions, Part 2

## Course Objectives

- Define Cisco Business TelePresence Solutions components and architectures
- Describe SIP and H.323 basic configuration
- Implement advanced features of Cisco VCS
- Implement Cisco TelePresence MCU, Cisco TelePresence Server, and the MSE 8000 Server as they interoperate with both the Cisco VCS and the Cisco Unified CM
- Utilize Cisco Conductor for multiple multipoint control units or TelePresence Server management
- Implement Cisco TelePresence Management Suite
- Provision devices using TMS Provisioning Extension

## Prerequisites

- The knowledge and skills that a learner must have before attending this course are as follows:
    - Working knowledge of basic IP networking
    - Knowledge of video conferencing and streaming fundamentals
- Additional knowledge and skills that will help the learner benefit fully from the course are as follows:
    - Implementing Cisco TelePresence Video Solutions, Part 1 (VTVS1)
- Cisco learning offerings that contribute to prerequisite knowledge and skills:
    - Cisco Basic IP Networking E-learning or Interconnecting Cisco Devices, Part 1 (ICND1)
    - Interconnecting Cisco Devices, Part 2 (ICND2)
    - Implementing Cisco Video Networking Devices, Part 1 (VIVND1)
    - Implementing Cisco Video Networking Devices, Part 2 (VIVND2)

## Course Outline

### Cisco TelePresence Endpoints Overview

- Understanding Cisco TelePresence Endpoints

### SIP and H.323 Basic Configuration

- Understanding the Cisco Video Network
- Understanding SIP, H.323, and the Cisco VCS
- Backing Up, Restoring, and Upgrading the Cisco VCS
- Configuring SIP with Cisco Unified CM
- Exploring the Cisco Unified CM and Cisco VCS Dial Plans

**Advanced Cisco VCS Features**

- Demonstrating Cisco VCS Security Policies and Authentication
- Describing the Fundamentals of Subzones
- Describing Transforms and Admin Policy
- Implementing the FindMe Application on the Cisco VCS
- Describing the Purpose of Zones on the Cisco VCS
- Configuring Neighbor Relationships
- Configuring Traversal Zones
- Describing and Formatting DNS and ENUM Zones
- Configuring Subzone Bandwidth Management
- Describing Call Processing
- Describing Regular Expressions
- Describing and Installing Security Certificates
- Describing Cisco Unified Presence on the Cisco VCS
- Describing the Conference Factory
- Using Redundancy
- Troubleshooting the Cisco VCS

**Video Conference Bridges**

- Understanding the Cisco TelePresence MCU
- Setting Up the Cisco TelePresence MCU
- Configuring the Cisco TelePresence MCU
- Operating the Cisco TelePresence MCU
- Customizing the Cisco TelePresence MCU
- Understanding Global Conference Settings
- Upgrading the Cisco TelePresence MCU
- Understanding the Cisco TelePresence MSE 8000
- Understanding the Cisco TelePresence Server
- Understanding TIP
- Troubleshooting the Cisco TelePresence MCU

**Cisco TelePresence Conductor**

- Understanding the Cisco TelePresence Conductor
- Configuring the Cisco MCU with VCS and Conductor
- Configuring the Cisco MCU with Unified CM and Conductor
- Configuring the TelePresence Server with the Conductor
- Configuring the Cisco VCS with TelePresence Conductor
- Configuring Cisco TelePresence Conductor Settings
- Configuring the Cisco Unified CM and Conductor
- Troubleshooting the TelePresence Conductor

**Cisco TelePresence Management Suite**

- Understanding the Cisco TMS
- Operating the Cisco TMS
- Creating Conferences in the Cisco TMS
- Understanding ISDN and IP Zones
- Managing Permissions in the Cisco TMS
- Troubleshooting the Cisco TMS

**Cisco TMSPE**

- Understanding Cisco TMSPE
- Configuring Cisco TMSPE Components
- Deploying Cisco TMSPE for Provisioning
- Provisioning Phone Books and Sending Account Information
- Troubleshooting Provisioning Components

**Cisco TelePresence Content Server (optional for VTVS2 as it is covered in VTVS1)**

- Understanding the Cisco TCS
- Configuring the Cisco TCS