Implementing Cisco Video Network Devices Part 1 & 2 (CIVND1/2) v1.0

In CIVND1/2 students will gain the necessary knowledge to assess the requirements for a successful implementation of a video solution and will be able to implement and troubleshoot Cisco Unified Communication and Collaboration, TelePresence, and Digital Media Player in different Cisco Business Video solution architectures. CIVND1/2 describes the characteristics of a video solution and enables you to evaluate the general requirements for video deployments such as codec options, media formats, protocols, network impact, high-level architectural components, interactions, and requisites to the environment. It is designed to provide you with the necessary knowledge and skills to implement various Cisco video endpoints in converged Cisco video infrastructures.

The software applications that are covered in this course include:

- Cisco Unified Communications Manager
- Cisco Unified Communications Manager IM and Presence
- Cisco TelePresence Video Communication Server
- Cisco TelePresence Multipoint Controller Unit
- Cisco TMS Server

Why Attend With Current Technologies CLC

- Each Student has a Telepresence Unit
- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 300 Mbps Fiber Connection for our Labs
- Our Lab Run up to Date version of Code on our Servers
- Each Pod has their own set of Servers. Including their own CUCM, IMP, VCS-C, VCS-E, Conductor, (2) Telepresence Servers, TMS Server. AD/Exchange Servers
- Our labs have a Variety of Telepresence Units including SX80 With Speaker Track, SX10, EX90, C60, DX650, DX80, DX70, CTS 500
Who Should Attend

The primary audience for this course is as follows:

- Network Video Engineer
- Voice/UC/Collaboration/Communications Engineer
- Collaboration Tools Engineer
- Collaboration Sales/Systems Engineer

Prerequisites

- Foundational IP networking knowledge such as included with a CCENT or CCNA certification is recommended.
- Working knowledge of basic IP networking
- CICD - Implementing Cisco Collaboration Devices or Equivalent Knowledge

Course Outline

Video Conferencing and Streaming Fundamentals

- Introduction to Video and Video Applications
- Video Technology Basics
- Video Protocols and Media
- Functional Components of Video Infrastructures
- Network Requirements of Video Solutions
- Cisco Video Solution Architecture Overview

Cisco TelePresence Endpoint Environmental Requirements and Installation

- Environmental Requirements for Video Installations
- Installing Cisco TelePresence Endpoints and Profile Systems

Cisco Business Video Solutions

- Describing Cisco Video Collaboration
- Describing Cisco Video and Content Delivery
- Describing Cisco Video Surveillance
- Discovering Central Video-Endpoint Control Elements

Cisco Unified IP Phones, Collaboration Desk Endpoints, and Cisco Jabber

- Describing and Installing Cisco Unified IP Phones, Collaboration Desk Endpoints, and Cisco Jabber
- Configuring Cisco Unified IP Phones and Cisco Jabber
- Operating and Troubleshooting Cisco Unified IP Phones and Cisco Jabber
Cisco TelePresence Endpoints

- Describing Cisco TelePresence Endpoint Characteristics and Installation
- Configuring Cisco TelePresence CTS Software-Based and Cisco DX650 Endpoints
- Configuring Cisco TelePresence TC Software-Based Endpoints
- Operating and Troubleshooting Cisco TelePresence Endpoints

Multipoint Conferencing

- Describing Cisco Multipoint Conferencing
- Configuring and Monitoring Cisco Multipoint Conferencing

Cisco Digital Media Players

- Describing Cisco DMP Characteristics and Installation
- Configuring Cisco DMPs
- Managing Cisco Edge 340 DMPs

Labs

- Implement Cisco Collaboration Endpoints
- Verify Collaboration Endpoint Registration Status on Cisco Unified Communications Manager
- Verify Collaboration Endpoint Registration Status on Cisco VCS
- Operate and Troubleshoot Cisco Collaboration Endpoints
- Install Cisco Jabber Client Software
- Implement Cisco Desktop Collaboration Experience Endpoints
- Erase Trust Files
- Dialed Number Analyzer
- View WEI on Windows 7
- Reset the Cisco DX650 to Factory Defaults
- Implement Cisco TelePresence TC Software-Based Endpoints
- Implement Multipoint Calls on Cisco Collaboration Endpoints
- Reset Cisco TelePresence Sets to Factory Defaults
- Use the Cisco Unified Communications Manager Phonebook
- View Cisco TelePresence TC Software-Based Endpoint System Information
- Collect Event Logs
- Collect SIP and H.323 Logs on a Cisco TelePresence TC Software-Based Endpoint
- Verify Cisco TMS IP Connectivity, Version, Licenses, and Routing Setup
- Verify Cisco TelePresence MCU IP Connectivity, Service Status, and Media Ports
- Connecting Cisco DMP Peripherals
- Cisco DMP Factory Reset
- Cisco Edge 340 DMP Configuration Management
- Implement the Cisco Edge 340 DMP
- Use Appspace to Manage a Cisco Edge 340 DMP (Instructor-Led Demo)