Cisco Unified Communications Architecture and Design v8.0

UCAD

Delivery Type: Classroom
Duration: 5 days

Overview

Unified Communications Architecture and Design (UCAD) v8.0 provides an overview of all the components of a Cisco Unified Communications solution and demonstrates how to effectively engineer and design a Cisco Unified Communications call control solution.

Target Audience

This course is designed for:
- ✓ Network architects who design converged networks
- ✓ System engineers who design customer and organization solutions
- ✓ Network engineers who wish to understand the high-level design process

Certification

Recommended preparation for exam(s):
- ✓ 642-415UCAD - Unified Communications Architecture and Design

Pre-Requisites

Attendees should meet the following prerequisites:

Delegates must have attended and passed the following courses, or have the equivilant experience in order to fully benefit from this course.
- ✓ ICND1 - Interconnecting Cisco Network Devices Pt 1
- ✓ ICND2 - Interconnect Cisco Network Devices Pt 2
- ✓ DESGN - Designing for Cisco Internetwork Solutions
- ✓ CVOICE - Cisco Voice Over IP
- ✓ CIPT1V8- Implementing Cisco Unified Communications Manager Part 1
- ✓ CIPT2V8- Implementing Cisco Unified Communications Manager Part 2
- ✓ QOS - Implementing Cisco QOS
- ✓ TDM Telephony

Objectives
After completing this program, you will be able to:

- ✓ Be able to identify the components that comprise a complete Cisco Unified Communications solution and size and position products within the solution
- ✓ Properly identify the products and features required in the LAN environment to support Unified Communications call control
- ✓ Based on existing telephony and data statistics:
- ✓ Calculate the WAN bandwidth requirements to support VoIP calls
- ✓ Sizing the voice gateway
- ✓ Sizing and locating the media resource

- ✓ Identify the issues and components that make up a Cisco Unified Communications call control solution
- ✓ Sizing and locating Cisco Unified Communications call agents, Cisco Unified Communication Manager 8.X
- ✓ Designing the proper dial plan
- ✓ Issues that impact E911 requirements
- ✓ Securing the voice network components

Follow on Courses
The following courses are recommended for further study:

- ✓ QOS - Implementing Cisco QOS