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Class Code: CIPT2
Number of Days: 5
Format: Instructor-Led

Implementing Cisco Unified Communications Part 2 (CIPT2 v6/7)

Course Description: This five-day course, Implementing Cisco Unified Communications IP Telephony Part 2 (CIPT2 v6/7) prepares you for installing and configuring, a Cisco Unified Communications Manager in a Multisite environment. This course focuses on Cisco Unified CallManager Release 6/7, the call routing and signaling component for the Cisco unified Communications solution. It also includes H.323 and Media Gateway Control Protocol (MGCP) gateway implementation, the use of a Cisco unified Border Element, and configuration of Survivable Remote Site Telephony (SRST), different mobility features, and voice security.

This course includes lab activities in which you will apply a dial plan for a Multisite environment, configure survivability for remote sites during WAN failure and implement solutions to reduce bandwidth requirements in the IP WAN. You will also enable Call Admission Control (CAC) and automated alternate routing (AAR), a feature that allows rerouting of calls over the public switched telephone network (PSTN) in case of no available bandwidth. There are labs for implementing device mobility, extension mobility, Cisco Unified Mobility, and voice security.

Target Audience: This course is intended for Cisco Reseller Partners, administrators and end users responsible for the implementation, administration and maintenance of CUUCM v6.x/7.x for a single site.

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

- Working knowledge of converged voice and data networks.
- Working knowledge of the MGCP, SIP and H.323 and their implementation on Cisco IOS gateways .
- Ability to configure and operate cisco routers and switches.
- Ability to configure and operate Cisco Unified Communications Manager in a single-site environment.

Delivery Method: Instructor led, group-paced, classroom-delivery learning model with structured hands-on activities.

Course Objectives

After completing this course, the student should be able to

- Describe Multisite deployment issues and solutions, and describe and configure required dial plan elements.
- Implement and processing resiliency in remote sites using SRST, MGCP fallback and Cisco Unified Communications Manager Express in SRST mode.
- Implement call admission control to prevent oversubscription to the IP Wan.
- Implement features and applications that are pertinent for Multisite deployments.
- Secure a Cisco Unified Communications IP Telephony Deployment.

Course Outline

- Course Introduction.
- Multisite Deployments.
- Centralized Call-Processing Redundancy.
- Bandwidth Management and Call Admission Control.
- Features and Applications for Multisite Deployments.
- IP Telephony Security.