

This hands-on course prepares you for installing and configuring Cisco Unified Communications Manager (CUCM) v8 and v9 in global, multisite networks. You will learn how to build the system in order to provide:

A variable-length, on-net dial plan that supports overlapping extensions that are described in Cisco's Unified Communications System Release 8.x SRND

Remote site survivability (SRST and SRST with CME) bandwidth management

Mobility features (such as device mobility and extension mobility) that are used in networks with multiple sites

Survivability for remote sites during WAN failure

Automated alternate routing (AAR) to deliver calls over the public switched telephone network (PSTN) if no bandwidth is available

With the increasing importance of globalization in the business world, this course prepares you to use local route groups and global transformations in order to simplify the dial plan and prepare for globalization without implementing E.164 dialing. After that, you will investigate deploying E.164 and explore the challenges that are presented by the North American Numbering Plan (NANP).

What You'll Learn

Issues in multisite deployments and their solutions

Implement a variable-length on-net dial plan without globalization supporting multiple sites with overlapping extensions

Use v7 and v8 and 9.1 features, including local route groups and global transformations

Transition to a globalized E.164 dial plan

Issues with globalization in the NANP

Implement call-processing resiliency in remote sites using SRST, MGCP fallback, and CUCM Express

Implement CAC to manage calling and prevent oversubscription of the IP WAN

Implement mobility features such as CUCM Device Mobility and CUCM Extension Mobility

Explore the use of gatekeepers and SAF for intercluster routing

Configure and implement solutions to reduce bandwidth requirements in the IP WAN

Implement H.323 and Media Gateway Control Protocol (MGCP) gateways

Call Control Discovery (CCD) and the Service Advertisement Framework (SAF)

RSVP and SIP Precondition

Use Enterprise License Manager to manage licenses

Who Needs to Attend

Network professionals who install, configure, and manage Cisco Unified Communications solutions