Implementing Cisco IP Telephony and Video Part 2

Duration: 5 Days      Course Code: CIPTV2      Version: 1.0

Overview:
This course follows on from Implementing Cisco IP Telephony and Video Part 1 and prepares delegates for implementing Cisco Unified Communications Manager, Cisco VCS-C and Cisco Expressway in a multisite environment. It covers globalized call routing, Call Control Discovery (CCD), Cisco Unified Survivable Remote Site Telephony (SRST) and mobility features such as Cisco Device Mobility and Cisco Extension Mobility.
Delegates 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.Delegates will also enable Call Admission Control (CAC) and implement ILS, GDPR and CCD.
This course is based on software version 10.6

Target Audience:
Engineers involved in the deployment of Cisco Collaboration solutions in multisite deployments, or individuals looking to achieve the CCNP Collaboration Career Certification.

Objectives:
- After you complete this course you will be able to:
  - Implement Device Mobility, Cisco Extension Mobility and Cisco Unified Mobility
  - Implement Cisco VCS and Cisco Expressway Series
  - Describe and implement CCD and ILS
- Describe multisite deployment issues and solutions, and describe and configure required dial plan elements
- Implement call-processing resiliency in remote sites by using Cisco Unified SRST, MGCP fallback
- Implement bandwidth management and CAC to prevent oversubscription of the IP WAN

Prerequisites:
Attendees should meet the following prerequisites:
- Working knowledge of converged voice and data networks
- Ability to configure and operate Cisco Unified Communications Manager in a single-site environment. CIPTV1 attendance is required.

Follow-on-Courses:
The following courses are recommended for further study:
- CTCOLLAB – Troubleshooting Cisco IP Telephony and Video
- CAPPS – Implementing Cisco Collaboration Applications.

Testing and Certification
Recommended preparation for exam(s):
- 300-075 - Implementing Cisco IP Telephony and Video Part 2
CIPTV2 is one of four courses required for the Cisco Certified Network Professional for Collaboration Career Certification
Content:

Multisite Deployment Implementation
- Identifying Issues in a Multisite Deployment
- Identifying Multisite Deployment Solutions
- Implementing a +E.164-based Dial Plan for International Multisite Deployments
- Implementing a URI Based Dial Plan for Multisite Deployments

Centralized Call-Processing Redundancy Implementation
- Implementing SRST and MGCP Fallback

Bandwidth Management and CAC Implementation
- Managing Bandwidth
- Implementing CAC

Implementation of Features and Applications for Multisite Deployments
- Implementing Device Mobility
- Implementing Cisco Extension Mobility
- Implementing Cisco Unified Mobility
- Implementing Cisco Unified Communications Manager and Cisco VCS
- Implementing Unified Communications Mobile and Remote Access
- Describing Cisco VCS and Cisco Expressway Series Deployment Options
- Deploying Users and Local Endpoints in Cisco VCS Control
- Interconnecting Cisco Unified Communications Manager and Cisco VCS
- Implementing CAC
- Implementing ILS and GDPR
- Implementing CCD

Cisco VCS and Cisco Expressway
- Lab 1: Implementing a +E.164-Based Dial Plan for International Multisite Deployments
- Lab 2: Implementing a URI-Based Dial Plan for Multisite Deployments
- Lab 3: Implementing SRST and MGCP Fallback
- Lab 4: Implementing Bandwidth Management
- Lab 5: Implementing Enhanced Location CAC
- Lab 6: Implementing Device Mobility
- Lab 7: Implementing Extension Mobility
- Lab 8: Implementing Cisco Unified Mobility
- Lab 9: Configuring Cisco VCS Control to Register Endpoints
- Lab 10: Implementing a Dial Plan in Cisco VCS Control to Interconnect with Cisco Unified Communications Manager
- Lab 11: Implementing Mobile and Remote Access via Cisco Expressway

Labs:

Lab 1: Implementing a +E.164-Based Dial Plan for International Multisite Deployments
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Additional Information:

Cisco Professional-level certifications (CCNP, CCNP Wireless, CCDP, CCSP, CCNP Security, CCNP Voice, CCIP, CCNP Service Provider, CCNP Service Provider Operations, and CCNP Data Center) are valid for three years. To recertify, pass ONE of the following before the certification expiration date: Pass any current 642-XXX Professional-level or any 300-XXX Professional-level exam, or Pass any current CCIE Written Exam, or Pass the current CCDE Written Exam OR current CCDE Practical Exam, or Pass the Cisco Certified Architect (CCAr) interview AND the CCAr board review to extend lower certifications.

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931
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