

Implementing Cisco Collaboration Cloud and Edge Solutions

Duration: 4 Days **Course Code: CLCEI** **Version: 1.0**

Overview:

The Implementing Cisco Collaboration Cloud and Edge Solutions (CLCEI) course provides you with knowledge of Cisco® Expressway Series solutions that enable business-to-business (B2B) calls, Cisco Mobile, remote access, authentication options and additional Cisco Expressway Series features.

Through a combination of lessons and hands-on labs, you will learn how to leverage collaborative technology to access secure, collaborative work supports including video, voice, content and remote workloads.

Target Audience:

Collaboration Engineers involved in the design, implementation and troubleshooting of Cisco collaboration technologies, as well as administrators involved in the support and troubleshooting of Cisco collaboration technologies.

Objectives:

- **After completing this course you should be able to:**
- Configure and troubleshoot Cisco Unified Communications Manager and Cisco Expressway Series integration
- Describe the Cisco Expressway-C additional features
- Configure and troubleshoot Cisco Collaboration solutions for B2B calls
- Describe how to secure B2B communication with Cisco Expressway Series
- Describe the Mobile and Remote Access (MRA) feature
- Describe the Cisco Expressway MRA security and integration options, including integration with Cisco Unity® Connection and Cisco Instant Messaging and Presence (IM&P)
- Configure Cisco Webex® Hybrid Services

Prerequisites:

Attendees should meet the following prerequisites:

- Understanding of networking technologies
- Understanding of voice and video
- Knowledge of Cisco Collaboration core technologies
- SIP and XMPP signalling protocols fundamentals
- Collaboration call control fundamentals of Cisco Unified Communications Manager
- CLFNDU - Understanding Cisco Collaboration Foundations
- CLCOR - Implementing and Operating Cisco Collaboration Core Technologies

Testing and Certification

Recommended as preparation for the following exams:

- **300-820** - Implementing Cisco Collaboration Cloud and Edge Solutions (CLCEI) exam
- This exam is required for one of the concentrations for the CCNP Collaboration Certification as well as the standalone Cisco Certified Specialist - Collaboration Cloud & Edge Implementation certification.

Content:

Configuring and Troubleshooting the Cisco Expressway Series

- Cisco Expressway Series Architecture
- Describe SIP and H.323 in the Cisco Expressway Series
- Describe Interworking in the Cisco Expressway Series
- Zones
- Digit String Manipulation
- Search Rules
- Transforms
- Troubleshoot Call Processing the Cisco Expressway Series
- Backup and Restore

Configuring Cisco Expressway Additional Features

- Describe Bandwidth Management
- Hardening Local Endpoint Registrations
- Describe Cisco Expressway Security and Clustering Features

Configuring and Troubleshooting Cisco Unified Communications Manager and Cisco Expressway Series

- Cisco Unified Communications Manager and Cisco Expressway-C Integration Overview
- Call Flow
- Dial Plan Overview
- Call Policy
- Troubleshooting Options for Cisco Unified Communication Manager and Cisco Expressway-C Integration

Configuring and Troubleshooting Cisco Collaboration Solutions for Business-to-Business

- Describe Supported Services for B2B Collaboration
- Describe Prerequisites for Business to Business Collaboration
- Call Flow Including Cisco Unified Communications Manager Endpoints
- Network Address Translation in a Collaboration Environment
- Cisco Expressway Series B2B Call Troubleshooting

Securing Business-to-Business Communication

- Firewall Traversal
- Certificates
- Secure Media
- Secure Media Between Cisco Unified Communications Manager and Cisco Expressway Series
- Toll Fraud Prevention

Configuring and Troubleshooting Mobile and Remote Access

- Describe Prerequisites for Mobile and Remote Access
- Describe Service Discovery
- Explore Expressway Settings for MRA
- Certificates
- HTTP Proxy
- Cisco Jabber Registration Procedure
- Cisco Jabber Registration in Hybrid Deployment
- Cisco Jabber Configuration File
- MRA Troubleshooting

Integrating and Securing Mobile and Remote Access

- Secure Cisco Unified Communications Integration
- Cisco Unity Connection Integration
- Cisco MRA Access Control Options
- Additional Cisco MRA Features

Configuring Cisco Webex Hybrid Services

- Cisco Webex Teams
- Describe Cisco Webex Control Hub
- Describe Cisco Webex Hybrid Media Services
- Describe Cisco Expressway Network Requirements for Using Hybrid Call Service Connect
- Explore Cisco Expressway Requirements for Using Hybrid Call Service Connect
- Describe Cisco Webex Video Mesh

Labs

- Deploy Virtualized Cisco Expressway
- Perform the Initial Cisco Expressway Series Configuration
- Register Endpoints on Cisco Expressway Series
- Call Search History and Registration
- Troubleshooting Tools
- Configure Cisco Expressway Series Bandwidth Management and Registration Restrictions
- Troubleshoot Cisco Expressway Series Endpoint Registration and Local Dial Plan
- Configure Cisco Expressway Series Security Features
- Configure Cisco Unified Communications Manager to Connect with Cisco Expressway-C
- Troubleshoot Cisco Unified Communications Manager and Cisco Expressway Series Integration
- Configure Cisco Unified Communications Manager and Cisco Expressway Series Integration (Practice Activity)
- Implement a B2B Cisco Collaboration Solution
- Troubleshoot B2B Calls on the Cisco Expressway Series
- Troubleshoot B2B Calls on the Cisco Expressway Series (practice activity)
- Secure a B2B Cisco Collaboration Communication
- Configure MRA on the Cisco Expressway Series
- Troubleshoot MRA on the Cisco Expressway Series
- Configure MRA with Additional Application Integrations
- Prepare for Cisco Webex Teams Integration

Further Information:

For More information, or to book your course, please call us on 353-1-814 8200

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