

Implementing Cisco Collaboration Cloud and Edge Solutions (CLCEI) v1.0

What you'll learn in this course

The **Implementing Cisco Collaboration Cloud and Edge Solutions (CLCEI) v1.0** course provides you with knowledge about Cisco® Expressway Series solutions enabling 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. This course also prepares you for the **300-820 Implementing Cisco Collaboration Cloud and Edge Solutions (CLCEI)** exam. This course also earns you 40 Continuing Education (CE) credits towards recertification.

Course duration

- Instructor-led training: 5 days in the classroom with hands-on lab practice
- E-Learning: Equivalent to 5 days classroom instruction

How you'll benefit

This course will help you:

- Acquire the knowledge and skills to use the tools and systems designed to facilitate team-based collaboration whether in-office or remote.
- Gain hands-on experience in using Cisco Expressway software for secure, remote access for phones, endpoints, smartphones, tablets, video, and other communication devices to support nontraditional workspaces.
- Prepare for the **300-820 CLCEI** exam
- Earn 40 CE credits toward recertification

What to expect in the exam

The **300-820 CLCEI** exam certifies your knowledge and skills related to collaboration cloud and edge solutions, expressway configurations, and Cisco WebEx Teams™ hybrid and emerging technologies. After you pass **300-820 CLCEI**, you earn the **Cisco Certified Specialist - Collaboration Cloud and Edge Implementation** certification, and you satisfy the concentration exam requirement for this professional-level certification:

- [CCNP® Collaboration](#)

Who should enroll

This course is designed for professionals in job roles such as:

- Collaboration engineers
- Collaboration administrators

How to enroll

E-learning

- To buy a single e-learning license, visit the [Cisco Learning Network Store](#).
- For more than one license, or a learning library subscription, contact us at learning-bdm@cisco.com.

Instructor-led training

- Find a class at the [Cisco Learning Locator](#).
- Arrange training at your location through [Cisco Private Group Training](#).

Technology areas

- Collaboration

Course details

Objectives

After taking 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

Before taking this course, you should have the following knowledge and skills:

- Understanding of networking technologies
- Understanding voice and video
- Knowledge of Cisco collaboration core technologies
- Session Initiation Protocol (SIP) and Extensible Messaging and Presence Protocol (XMPP) signaling protocol fundamentals
- Collaboration call control fundamentals of Cisco Unified Communications Manager

The following Cisco courses can help you gain the knowledge you need to prepare for this course:

- **Understanding Cisco Collaboration Foundations (CLFNDU)**
- **Implementing and Operating Cisco Collaboration Core Technologies (CLCOR)**

Outline

- Configuring and Troubleshooting the Cisco Expressway Series
- Configuring Cisco Expressway Additional Features
- Configuring and Troubleshooting Cisco Unified Communications Manager and Cisco Expressway Series
- Configuring and Troubleshooting Cisco Collaboration Solutions for Business-to-Business
- Securing Business-to-Business Communication
- Configuring and Troubleshooting Mobile and Remote Access
- Integrating and Securing Mobile and Remote Access
- Configuring Cisco Webex Hybrid Services

Lab outline

- 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
- Configure Cisco Webex Hybrid Services




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