

CCNP COLLABORATION - 2020

To earn CCNP Collaboration, you pass two exams: a core exam and a collaboration concentration exam of your choice.

The core exam is also the qualifying exam for CCIE Collaboration certification. Passing this exam helps toward earning both of these certifications.

Required Exam

Recommended Training

Core Exam

350-801 CLCOR Implementing and Operating Cisco Collaboration Core Technologies (CLCOR)

Concentration Exams (choose one)

300-810 CLICA Implementing Cisco Collaboration Applications (CLICA)

300-815 CLACCM Implementing Cisco Advanced Call Control and Mobility Services (CLACCM)

300-820 CLCEI Implementing Cisco Collaboration Cloud and Edge Solutions (CLCEI)

300-835 CLAUTO Implementing Automation for Cisco Collaboration Solutions (CLAUI)

Implementing Cisco Collaboration Core Technologies (350-801 CLCOR)

Outline

- Describe the Cisco Collaboration solutions architecture
- Implement Cisco Unified Communications Manager provisioning features
- Describe and configure endpoints and commonly required features
- Integrate and troubleshoot Cisco Unified Communications Manager with LDAP for user synchronization and user authentication
- Compare the IP Phone signaling protocols of Session Initiation Protocol (SIP), H323, Media Gateway Control Protocol (MGCP), and Skinny Client Control Protocol (SCCP)
- Describe the different codecs and how they are used to transform analogue voice into digital streams
- Describe a dial plan, and explain call routing in Cisco Unified Communications Manager
- Implement Public Switched Telephone Network (PSTN) access using MGCP gateways
- Implement a Cisco gateway for PSTN access
- Configure calling privileges in Cisco Unified Communications Manager
- Implement toll fraud prevention

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Implementing Cisco Collaboration Core Technologies (350-801 CLCOR)

Outline

- Implement globalized call routing within a Cisco Unified Communications Manager cluster
- Implement and troubleshoot media resources in Cisco Unified Communications Manager
- Configure and troubleshoot Cisco Unity Connection integration
- Configure and troubleshoot Cisco Unity Connection call handlers
- Describe Cisco Instant Messaging and Presence, including call flows and protocols
- Describe how Mobile Remote Access (MRA) is used to allow endpoints to work from outside the company
- Analyze traffic patterns and quality issues in converged IP networks supporting voice, video, and data traffic
- Define QoS and its models
- Implement classification and marking
- Configure classification and marking options on Cisco Catalyst switches