Implementing Cisco Unified Communications Voice over IP and QOS 8.0 (CVOICE)

Course Summary

Description
Implementing Cisco Voice Communications and QoS (CVOICE) v8.0 is a 5-day course that teaches learners about voice gateways, characteristics of VoIP call legs, dial plans and their implementation, basic implementation of IP phones in Cisco Unified Communications Manager Express environment, and essential information about gatekeepers and Cisco Unified Border Element. The course provides the learners with voice-related quality of service (QoS) mechanisms that are required in Cisco Unified Communications networks.

Objectives
At the end of this course, students will be able to:

- Explain what a voice gateway is, how it works, and describe its usage, components, and features
- Describe the characteristics and configuration elements of VoIP call legs
- Describe how to implement IP phones using Cisco Unified Communications Manager Express
- Describe the components of a dial plan, and explain how to implement a dial plan on a Cisco Unified voice gateway
- Explain what gatekeepers and Cisco Unified Border Elements are, how they work, and what features they support
- Describe why QoS is needed, what functions it performs, and how it can be implemented in a Cisco Unified Communications network

Topics

- Introduction to Voice Gateways
- VoIP Call Legs
- Cisco Unified Communications Manager Express Endpoints Implementation
- Dial Plan Implementation
- Gatekeeper and Cisco Unified Border Element Implementation
- Quality of Service

Audience

- Network administrators and network engineers
- CCNP Voice candidates
- Systems engineers

Prerequisites

- Working knowledge of fundamental terms and concepts of computer networking, including LANs, WANs, and IP switching and routing
- Ability to configure and operate Cisco IOS routers in an IP environment at the Cisco CCNA Routing and Switching level
- Basic knowledge of traditional voice, converged voice, and data networks at the Cisco CCNA Voice level
- CCNA Voice related training: Introducing Cisco Voice and Unified Communications Administration (ICOMM) v8.0

Duration
Five days

Due to the nature of this material, this document refers to numerous hardware and software products by their trade names. References to other companies and their products are for informational purposes only, and all trademarks are the properties of their respective companies. It is not the intent of ProTech Professional Technical Services, Inc. to use any of these names generically