

40409 Deploying Voice Workloads for Skype for Business Online and Server 2015

Overview

This course will provide students with the knowledge and skills to configure and manage Cloud PBX with PSTN Calling, Cloud PBX with On-Premises PSTN Connectivity, Cloud Connector Edition, and on-premises Enterprise Voice.

Target Audience

This course is intended for IT consultants and telecommunications professionals who design, plan, deploy, and maintain solutions for unified communications (UC) and need to translate business requirements into technical architectures and designs for UC solutions. It is also intended for support staff in charge of maintaining UC solutions. The student should be familiar with Skype for Business Server 2015 or Lync Server 2013 technologies and the telecommunications standards and network components that support the configuration and deployment of Skype for Business architectures.

Course Objectives

At course completion, students will be able to:

- Describe the various voice workloads available with Skype for Business Online and Skype for Business Server 2015.
- Assess a network in preparation for a Skype for Business Server 2015 or Skype for Business Online voice solution.
- Deploy and configure a Skype for Business voice solution that combines Skype for Business Online and Skype for Business Enterprise Voice.
- Deploy and configure Cloud PBX with PSTN Calling.
- Configure on-premises Enterprise Voice functionality.
- Deploy and configure Cloud PBX with On-Premises PSTN Connectivity.
- Integrate Skype for Business Server 2015 with non-Microsoft voice infrastructures.
- Plan for and deploy Cloud Connector Edition.
- Configure features that extend Skype for Business Enterprise Voice (on-premises) functionality, such as Location Information Servers and Response Groups.
- Optimize voice communications on a TCP/IP network.
- Use Call Quality Methodology and Skype for Business Server 2015 monitoring tools and reports.
- Troubleshoot Skype for Business Online and Skype for Business Server 2015 Enterprise Voice (on-premises) voice communications.

Course Outline

[Register Online](#)

Schedule

Class Length: 5 Days

G2R = "Guaranteed to Run" | OLL = "Online LIVE"
ILT = "Instructor-Led-Training"

This course is not currently available on the public schedule. Please contact us using the information in the footer below to inquire about future dates or to schedule a private class.

Introduction to Voice Workloads

Voice Overview
Designing Voice Workloads
Skype for Business Ecosystem
SIP Basics and Routing
Lab : Customizing Your Lab Environment

Assess Network and Voice Deployment Options

Network Planning and Assessment
Skype for Business Features and Functionality
Plan your Cloud PBX Solution
Lab : Configuring Identity Federation with Office 365

Split Domain Configuration

Split Domain Overview
Split Domain Requirements
Split Domain Deployments
User Provisions and Migration
Troubleshooting Split Domain Related Issues
Lab : Setting up Split Domain with Skype for Business Online

Cloud PBX with PSTN Calling and Conferencing

Cloud PBX with PSTN Calling Features
PSTN Conferencing and Meeting Features
Skype for Business Server 2015 Dial-in Conferencing
Lab : Configuring Cloud PBX with PSTN Calling

Enterprise Voice (On-Premises)

Designing Enterprise Voice
Configuring Enterprise Voice
Voice Routing
Assigning Phone Numbers
Client Configuration
Unified Messaging
Lab : Configuring Enterprise Voice

PSTN Connectivity

Connecting to the PSTN
Connecting to the Existing PBX
M:N Interworking Routing
Call Routing Reliability
Call via Work
Shared Line Appearance
IP Phones
Room Systems
Mobile
Lab : Configuring Integration with an IP-PBX

Cloud PBX with On-Premises PSTN Connectivity using an Existing Deployment

Call Flows and Manageability
Lab : Call Flows and Manageability

Cloud PBX with On-Premises PSTN Connectivity using Cloud Connector Edition

Introduction to Cloud Connector Edition
Planning PSTN Connectivity via Cloud Connector Edition
Deploying Cloud Connector Edition
Lab : Deploying Cloud Connector Edition

Enhanced Calling Features and Device Requirements

Call Park Service
Managing Calls to Unassigned Numbers
Delegation and Private Lines
Response Group Services
Location Information Services and E9-1-1
Lab: Configuring Response Groups
Lab : Configuring Location Information Services and Managing Devices

Network Requirements

Media Stacks
Traffic Modeling
Quality of Service
Software-Defined Networking
Overview of Call Admission Control
Implementing Call Admission Control
Software-Defined Networking
Lab : Managing Voice Quality

Monitoring and Maintaining Voice Quality

Call Quality Methodology
Call Quality Dashboard
Monitoring Tools
Usage Reports and Monitoring
Lab : Deploying Call Quality Dashboard, Analyzing Reports, and Capturing KPI

Voice Troubleshooting

Troubleshooting Call Quality
Troubleshooting Scenarios
Troubleshooting Skype for Business Online Voice
Troubleshooting IP Phones
Lab : Troubleshoot Dial Plans, Routing, and Trunks