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TRAINING

AUDIOCODES SOLUTIONS FOR MICROSOFT
SKYPE FOR BUSINESS
ADVANCED

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course

This Advanced course covers advanced AudioCodes Session Border Controllers (SBC) configuration, troubleshooting and administration in a Microsoft Skype for Business environment. It also provides the tools to plan, design and select the suitable AudioCodes devices for this environment.

Through hands-on labs and workshops, students will gain experience in configuring and monitoring the operation of AudioCodes SBC's as well as designing and planning the network.

The lab includes a complete Skype for Business environment with a Domain Controller and Front End servers, as well as a PSTN emulation for fallback and an ITSP emulation for advanced SIP Trunk connections.

Student profile

The hands-on sessions use AudioCodes, Mediant 1000 Gateways, Mediant 1000 SBC's and 420HB Lync compatible IP Phones, but the course is also applicable to other AudioCodes Gateways and SBC hardware platforms.

Products

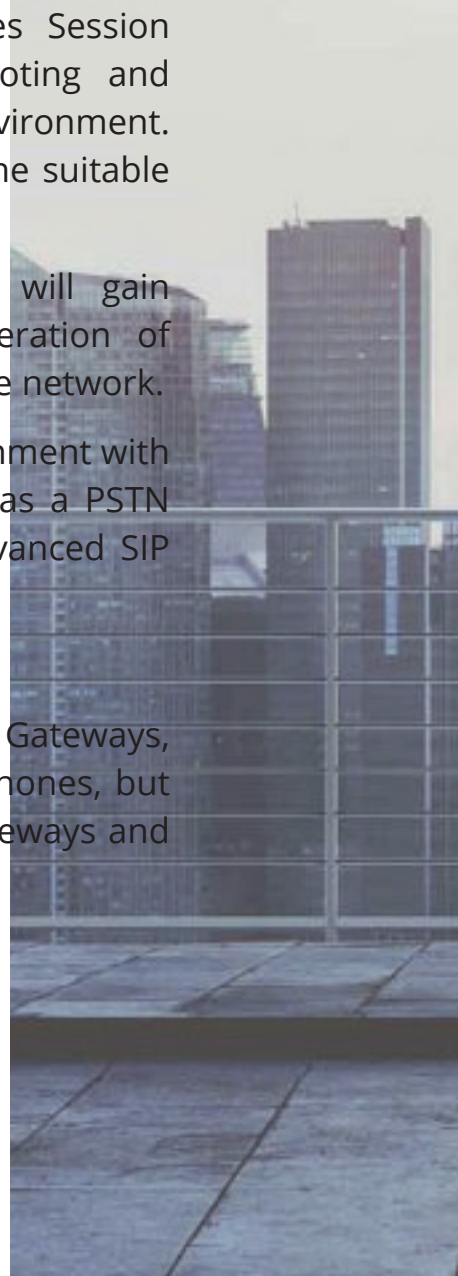
Mediant 800B/1000B/2600/3000/4000B.

Duration

4 days.

Certification

ACP (AudioCodes Certificate Professional) certification exam.





course Objectives

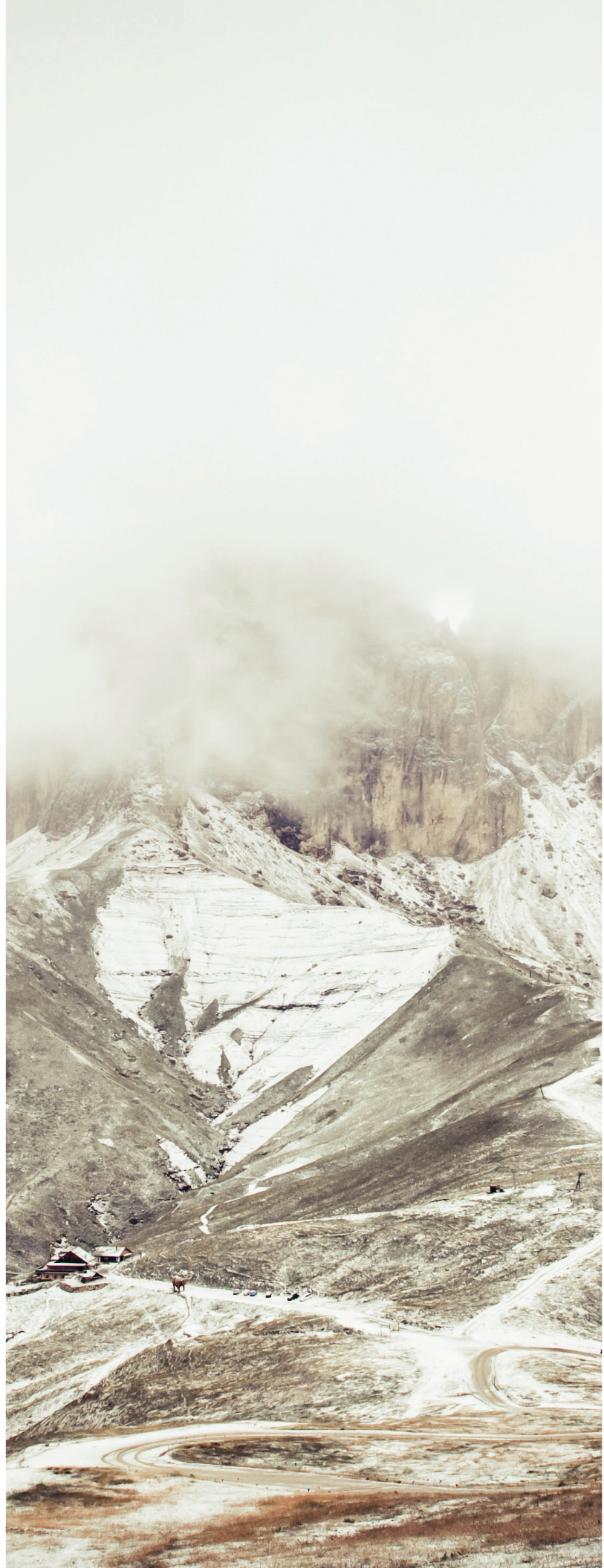
Students are expected to be active participants in the learning process. Emphasis is placed on diagnostic tools and troubleshooting strategies to help students become self-sufficient in the use and support of AudioCodes SBC products.

Upon completion of this course, students will be able to:

- Achieve an in-depth understanding of AudioCodes SBC application for SIP normalization, media handling, message manipulation and survivability
- Define and describe what is the Cloud Resilience Package
- Understand and configure the SBC's advanced routing capabilities
- Understand the SBC security risks and know how to prevent them
- Understand AudioCodes SBC devices capability and how to deploy them in the VoIP network
- Get knowledge on how to plan and design a network using an SBC in the ITSP environment

pre-Requisites

AudioCodes Solutions in the Microsoft Skype for Business Environment – Essentials & Configuration course.



Course Outline

Skype for Business Enterprise Voice Features

Skype for Business topology and voice features overview

Analog devices in a Skype for Business environment

SBA in a Skype for Business environment

Skype for Business management tools

Topology Builder

Skype for Business Control Panel

Skype for Business Logging

AudioCodes location in Office 365's Skype for Business and Exchange networks

LDAP and ENUM Call Routing

Active Directory-based call routing application

ENUM-based call routing application

Microsoft Skype for Business and ITSP Interworking

SBC termination rules

Required terminations for Skype for Business integration

SBC Configuration for Skype for Business

Configuration parameters for SIP Trunking

Advanced SBC Media Handling

SBC media handling concept

Media handling security features

Advanced transcoding

Advanced SBC Security

Enterprise security threats

AudioCodes SBC security capabilities

SBC Overview

SBC functions

AudioCodes SBC product portfolio

SBC devices capacity

Audiocodes SBC Application Description

Signaling Routing Domain (SRD)

SIP Interface

Media Realm

SIP dialog initiation process description

IP-to-IP routing

SIP message manipulations

SBC media handling

Advanced SBC Message Manipulation

Reasons for message manipulation

Message manipulation operation

Regular Expressions (regex) based message manipulation

Planning and design guidelines

DSP channels

SBC with and without transcoding

User registration

PSTN

PSTN fallback

Hardware

Certification Exam

Theoretical

Practical

Lab activities

Lab 1:

Microsoft Logging Tool

Lab 2:

Connect Skype for Business

Lab 3:

Advanced Connect Microsoft Skype for Business to ITSP

Workshop:

Planning and Designing AudioCodes in Skype for Business Environment

Fee, location and other

- *Including training equipment for lab exercises (trainee bring their own laptop);*
- *The course is subject to a minimum number of attendee;*
- *Fee per trainee.*

