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TRAINING

AUDIOCODES SESSION BORDER CONTROLLERS
ADVANCED

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ADVANCED

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course

This Advanced course covers advanced topics in configuration, troubleshooting and administration of AudioCodes devices configured as an SBC.

Through demonstrations and hands-on labs, students will gain experience in configuring and monitoring the operation of AudioCodes Session Border Controllers (SBC) for needs such as transcoding, media handling, survivability, SBC enhanced capabilities and advanced header manipulations.

Student profile

Engineers with experience in configuring, maintaining and troubleshooting AudioCodes devices as an SBC.

Products

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

Duration

4 days.

Certification

ACP (AudioCodes Certificate Professional) certification exam.



course Objectives

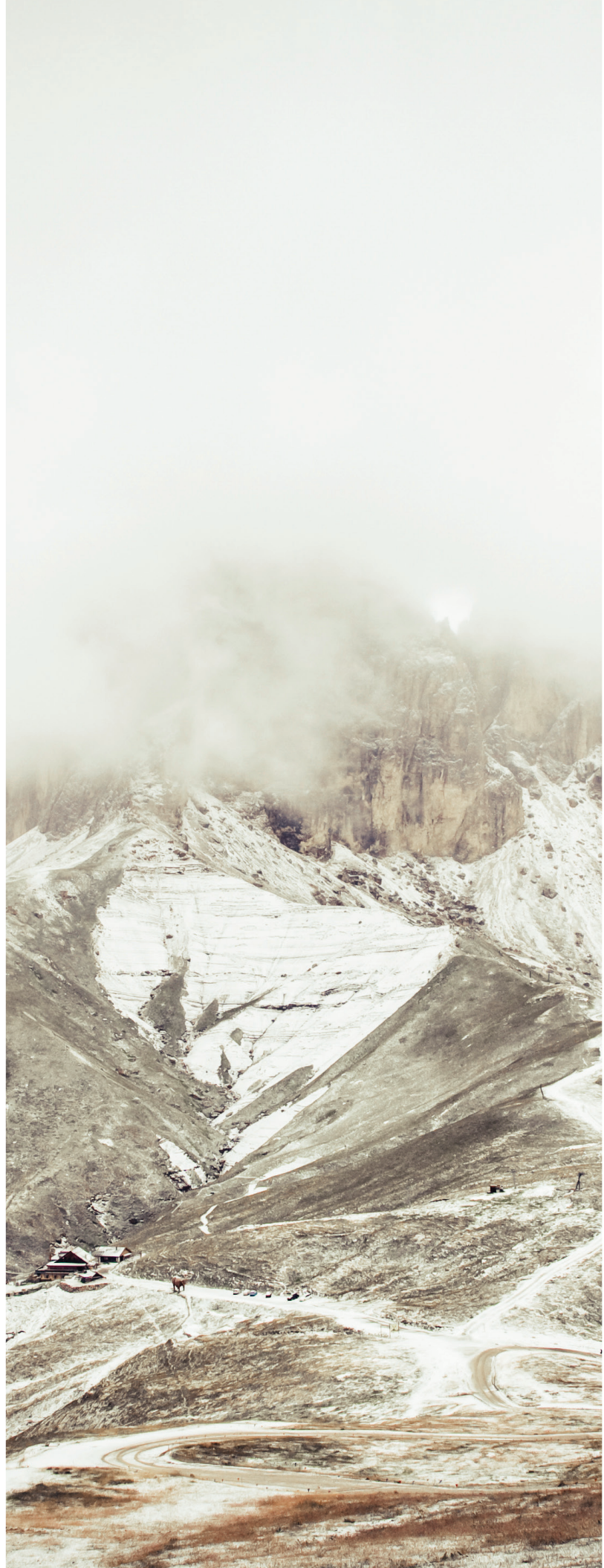
Students are expected to be active participants in the learning process. Emphasis is placed on diagnostic tools and troubleshooting strategies to help students become self-sufficient in the use and support of AudioCodes SBC products.

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

Students are expected to have successfully completed the AudioCodes SBC – Essentials & Configuration course.



Course Outline

SBC Overview

SBC functions

AudioCodes E-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

Far End Users handling

Advanced routing capabilities

LDAP call routing application

ENUM-based call routing application

LCR (Least Cost Routing)

Dial Plan Call Routing

SBC Configuration

Configuration parameters for SIP

Trunking

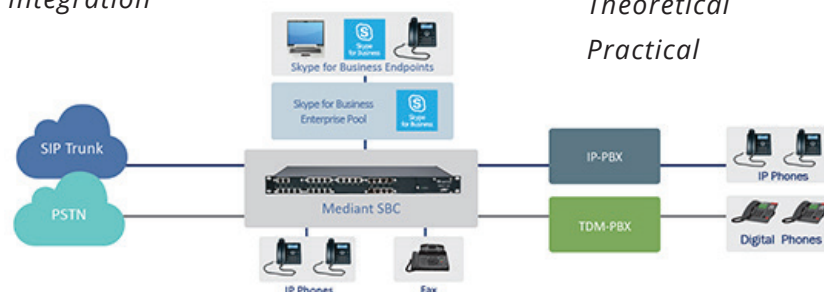
Advanced SBC Terminations

SBC termination rules

IP Profile

Handling of SIP session, Early Media, REFER, 3xx and other messages

Example of terminations for IP-PBX integration



Advanced SBC Media Handling

SBC media handling concept

Media handling security features

Advanced transcoding

Advanced SBC Message Manipulation

Reasons for message manipulation

Message manipulation operation

Regular Expressions (regex) based message manipulation

Advanced SBC Security

Enterprise security threats

AudioCodes SBC security capabilities

Classification table

CAC

Message Policies

IDS

SBC Enhanced Capabilities

DSP channels

SBC with and without transcoding

User registration

PSTN

PSTN fallback

Hardware

AudioCodes Best Practice proposal

Certification Exams

Theoretical

Practical

Lab activities

Lab 1:

Advanced IP-PBX to ITSP connection — SBC configuration with LDAP routing

Lab 2:

Advanced IP-PBX to ITSP connection – SBC Configuration with termination capabilities and different coders

Lab 3:

Advanced IP-PBX to ITSP connection – Message Manipulation based on Regex and regular rules

Workshop:

Planning and Designing AudioCodes in ITSP 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.*

