AudioCodes SBC: Advanced Interworking & Security

Course Code	Public/Per Seat: TR-SBC-ADI-S Dedicated Course: TR-SBC-ADI-C
Course Name	AudioCodes SBC: Advanced Interworking & Security
Course Details	
Course	Hands-on technical instruction covering advanced Manipulation, Media Handling and Security configuration as well as a high-level administration of AudioCodes Session Border Controllers (SBCs) for interoperability in a secured environment.
Products	AudioCodes SBC Series
Student Profile	Systems Engineers, Network Architects, Consultants, and Integrators responsible for the planning, design, implementation and management of Session Border Controllers in their networks.
Duration	4 days
Delivery Method	Classroom Instructor Led
Certification	The course includes an ACP (AudioCodes Certificate Professional) certification exam. 
General 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 their use and support of AudioCodes SBCs. On completion of the course, students will be able to: • Identify the concept and needs of Interworking • Have a deeper understanding of AudioCodes' SBC application for SIP normalization, media handling, message manipulation • Understand the SBC security risks and know how to prevent them
Prerequisites	• ACA Certification • 6 months of AudioCodes field experience with AudioCodes SBC products
Course Outline	• AudioCodes SBC Application Review: ✓ IP Interfaces ✓ Physical Interfaces ✓ Basic Entities: SRD, Media Realm, SIP Interface, IP Group and Proxy Set ✓ SIP Dialog Initiation Process Description ✓ Classification Process ✓ IP Profile ✓ IP-to-IP routing ✓ SIP Message Manipulations ✓ Entities and Tables Relations • Advanced SBC Interworking Features:

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	✓ IP Profile ✓ Example of terminations for IP-PBX integration ✓ Handling Modes ✓ Handling of Early Media, REFER, 3xx and other messages • Advanced SBC Media Handling: ✓ SBC Media Handling Concepts ✓ Extension and Allowed Coders ✓ Media Handling Examples ✓ Advanced Transcoding ✓ Media Handling Security Features • Quality of Experience (QoE) Related Profiles: ✓ QoE Profile ✓ Bandwidth Profiles ✓ Media Subnets ✓ Performance Profiles ✓ Quality of Service (QoS) Rules • SBC Message Manipulation: ✓ Number Manipulations ✓ Reasons for Message Manipulation ✓ Message Manipulation Operation ✓ Message Normalization ✓ Regular Expressions (Regex) Based Message Manipulation • Advanced SBC Security: ✓ Enterprise Security Threats ✓ AudioCodes SBC Security Capabilities ✓ Separation ✓ Topology Hiding ✓ Secured SIP using TLS ✓ TLS Contexts and Certificates ✓ Authentication ✓ Classification table ✓ Call Admission Control Profiles ✓ IDs ✓ Registration ✓ Message Policies ✓ Routing ✓ Events Logging • SBC Access ✓ Access using HTTPS ✓ Access using Telnet-SSH ✓ Access using LDAP ✓ Access using SNMP
Lab Activities	• Configuration with Advanced Interworking Capabilities • SBC Configuration using Transcoding • Configuration for Bandwidth Profiles

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	• Message Manipulation based on Regex and Regular Rules • SBC Security • Device Access using LDAP