


## AudioCodes Advanced SBC Training: Advanced Interworking & Security

<b>Course Code</b>	<b>Public/Per Seat: TR-SBC-ADI-S</b>
	<b>Dedicated Course: TR-SBC-ADI-C</b>
<b>Course Name</b>	<b>AudioCodes SBC: Advanced Interworking &amp; Security</b>
<b>Course Details</b>	
<b>Course</b>	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.
<b>Products</b>	AudioCodes SBC Series
<b>Student Profile</b>	Systems Engineers, Network Architects, Consultants, and Integrators responsible for the planning, design, implementation and management of Session Border Controllers in their networks.
<b>Duration</b>	4 days
<b>Delivery Method</b>	Classroom Instructor Led
<b>Certification</b>	<p>The course includes an ACP (AudioCodes Certificate Professional) certification exam.</p> 
<b>General Objectives</b>	<p>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:</p> <ul style="list-style-type: none"> <li>• Identify the concept and needs of Interworking</li> <li>• Have a deeper understanding of AudioCodes' SBC application for SIP normalization, media handling, message manipulation</li> <li>• Understand the SBC security risks and know how to prevent them</li> </ul>
<b>Prerequisites</b>	<ul style="list-style-type: none"> <li>• ACA Certification</li> <li>• 6 months of AudioCodes field experience with AudioCodes SBC products</li> </ul>
<b>Course Outline</b>	<ul style="list-style-type: none"> <li>• AudioCodes SBC Application Review:             <ul style="list-style-type: none"> <li>✓ IP Interfaces</li> <li>✓ Physical Interfaces</li> <li>✓ Basic Entities: SRD, Media Realm, SIP Interface, IP Group and Proxy Set</li> <li>✓ SIP Dialog Initiation Process Description</li> <li>✓ Classification Process</li> <li>✓ IP Profile</li> <li>✓ IP-to-IP routing</li> <li>✓ SIP Message Manipulations</li> <li>✓ Entities and Tables Relations</li> </ul> </li> <li>• Advanced SBC Interworking Features:</li> </ul>

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	<ul style="list-style-type: none"> <li>✓ IP Profile</li> <li>✓ Example of terminations for IP-PBX integration</li> <li>✓ Handling Modes</li> <li>✓ Handling of Early Media, REFER, 3xx and other messages</li> <li>• Advanced SBC Media Handling: <ul style="list-style-type: none"> <li>✓ SBC Media Handling Concepts</li> <li>✓ Extension and Allowed Coders</li> <li>✓ Media Handling Examples</li> <li>✓ Advanced Transcoding</li> <li>✓ Media Handling Security Features</li> </ul> </li> <li>• Quality of Experience (QoE) Related Profiles: <ul style="list-style-type: none"> <li>✓ QoE Profile</li> <li>✓ Bandwidth Profiles</li> <li>✓ Media Subnets</li> <li>✓ Performance Profiles</li> <li>✓ Quality of Service (QoS) Rules</li> </ul> </li> <li>• SBC Message Manipulation: <ul style="list-style-type: none"> <li>✓ Number Manipulations</li> <li>✓ Reasons for Message Manipulation</li> <li>✓ Message Manipulation Operation</li> <li>✓ Message Normalization</li> <li>✓ Regular Expressions (Regex) Based Message Manipulation</li> </ul> </li> <li>• Advanced SBC Security: <ul style="list-style-type: none"> <li>✓ Enterprise Security Threats</li> <li>✓ AudioCodes SBC Security Capabilities</li> <li>✓ Separation</li> <li>✓ Topology Hiding</li> <li>✓ Secured SIP using TLS</li> <li>✓ TLS Contexts and Certificates</li> <li>✓ Authentication</li> <li>✓ Classification table</li> <li>✓ Call Admission Control Profiles</li> <li>✓ IDs</li> <li>✓ Registration</li> <li>✓ Message Policies</li> <li>✓ Routing</li> <li>✓ Events Logging</li> </ul> </li> <li>• SBC Access <ul style="list-style-type: none"> <li>✓ Access using HTTPS</li> <li>✓ Access using Telnet-SSH</li> <li>✓ Access using LDAP</li> <li>✓ Access using SNMP</li> </ul> </li> </ul>
<b>Lab Activities</b>	<ul style="list-style-type: none"> <li>• Configuration with Advanced Interworking Capabilities</li> <li>• SBC Configuration using Transcoding</li> <li>• Configuration for Bandwidth Profiles</li> </ul>

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	<ul style="list-style-type: none"><li>• Message Manipulation based on Regex and Regular Rules</li><li>• SBC Security</li><li>• Device Access using LDAP</li></ul>