


## **AudioCodes SBC Training : Essentials & Configuration**

<b>Course Code</b>	<b>Public/Per Seat: TR-SBC-BSC-S</b>
	<b>Dedicated Course: TR-SBC-BSC-C</b>
<b>Course Name</b>	<b>AudioCodes SBC: Essentials &amp; Configuration</b>
<b>Course Details</b>	
<b>Course</b>	AudioCodes training for Session Border Controller (SBC) course is designed to provide engineers with experience in configuring, maintaining, and troubleshooting AudioCodes devices configured as an SBC.
<b>Products</b>	AudioCodes SBC Series, AudioCodes Gateway Series
<b>Student Profile</b>	Engineers with experience in configuring, maintaining, and troubleshooting AudioCodes devices as an SBC.
<b>Duration</b>	4 days
<b>Delivery Method</b>	Classroom Instructor Led or Online Instructor Led
<b>Certification</b>	<p>The course includes an ACA (AudioCodes Certificate Associated) 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 the use and support of AudioCodes SBC products. On completion of the course, students will be able to:</p> <ul style="list-style-type: none"> <li>• Identify the AudioCodes products that support the Session Border Controller (SBC) features</li> <li>• Identify the functions of the SBC</li> <li>• Describe how the SBC handles SIP messages</li> <li>• Understand the reasons for message manipulation</li> <li>• Understand the survivability concept</li> <li>• List SBC security features</li> <li>• Configure SBC message manipulation rules</li> <li>• Configure the parameters required by the SBC</li> <li>• Configure the SBC for SIP trunking</li> <li>• Configure AudioCodes Gateways for PSTN fallback needs</li> </ul>

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<b>Prerequisites</b>	<p>Students are expected to have an applicable professional background with a minimum of one year of practical experience with:</p> <ul style="list-style-type: none"> <li>• PSTN protocols and knowledge of analog and digital telephony systems</li> <li>• VoIP and SIP network architecture</li> <li>• Understanding of SIP control protocol signaling stacks</li> <li>• IP networking</li> </ul>
<b>Course Outline</b>	<ul style="list-style-type: none"> <li>• AudioCodes Presentation</li> <li>• User Interface Introduction: <ul style="list-style-type: none"> <li>✓ Basic configuration</li> <li>✓ Management and maintenance options</li> <li>✓ Web Interface</li> </ul> </li> <li>• Documentation</li> <li>• AudioCodes SBC Platforms: <ul style="list-style-type: none"> <li>✓ Hardware SBCs:</li> <li>✓ Mediant 2600/4000/9000</li> <li>✓ Hybrid SBC Portfolio</li> <li>✓ Mediant 500/8xx/1000/3000</li> <li>✓ Integrated SBC and MSBR:</li> <li>✓ Mediant 500/8xx/1000</li> <li>✓ Software SBC</li> </ul> </li> <li>• SBC Description: <ul style="list-style-type: none"> <li>✓ SBC definition</li> <li>✓ SBC functions</li> <li>✓ SBC topologies and deployment</li> <li>✓ Logical and physical connections</li> </ul> </li> <li>• SBC Features: <ul style="list-style-type: none"> <li>✓ NAT traversal</li> <li>✓ Transcoding</li> <li>✓ Topology hiding</li> <li>✓ VoIP firewall</li> <li>✓ SIP routing</li> <li>✓ SIP normalization</li> <li>✓ Survivability</li> </ul> </li> <li>• SBC Basic Terminology: <ul style="list-style-type: none"> <li>✓ Signaling Routing Domain (SRD)</li> <li>✓ SIP Interface</li> <li>✓ Media Realm</li> <li>✓ IP Groups</li> <li>✓ Proxy Sets</li> <li>✓ SIP dialog initiation process description</li> <li>✓ IP-to-IP routing</li> <li>✓ Multi-tenancy Concepts</li> </ul> </li> </ul>

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	<ul style="list-style-type: none"> <li>✓ Routing Policy</li> <li>• SBC Configuration: <ul style="list-style-type: none"> <li>✓ Parameters and tables</li> <li>✓ General parameters settings</li> <li>✓ Table assignments</li> <li>✓ Configuration example</li> <li>✓ SBC Configuration Wizard</li> </ul> </li> <li>• Debugging Tools: <ul style="list-style-type: none"> <li>✓ Syslog and Syslog Viewer</li> <li>✓ Wireshark</li> <li>✓ SIP Test Calls</li> </ul> </li> <li>• SBC Media Handling: <ul style="list-style-type: none"> <li>✓ Media capabilities</li> <li>✓ Media security</li> <li>✓ Media handling modes</li> <li>✓ Transcoding</li> <li>✓ Extended and Allowed coders process</li> <li>✓ Media handling example</li> </ul> </li> <li>• SBC Message Manipulation: <ul style="list-style-type: none"> <li>✓ Reasons for SIP message manipulation</li> <li>✓ Message manipulation configuration</li> <li>✓ Message Manipulation Set</li> <li>✓ Message manipulation rules</li> <li>✓ IP-to-IP number manipulation</li> </ul> </li> <li>• SBC Security Brief Overview: <ul style="list-style-type: none"> <li>✓ Security needs</li> <li>✓ Network security feature: <ul style="list-style-type: none"> <li>○ Topology hiding</li> <li>○ Firewall</li> </ul> </li> <li>✓ SBC security feature: <ul style="list-style-type: none"> <li>○ SIP firewall filtering rules (classification rules)</li> <li>○ Call Admission Control (CAC) to enforce limits</li> <li>○ SIP protection – filter methods</li> <li>○ Signaling security – TLS</li> <li>○ Media security – SRTP</li> <li>○ Block unregistered users</li> </ul> </li> <li>✓ Management security feature: <ul style="list-style-type: none"> <li>○ HTTPS</li> <li>○ SSH</li> <li>○ SNMP</li> </ul> </li> <li>✓ IDS</li> </ul> </li> <li>• AudioCodes Gateways Introduction:</li> </ul>

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	<ul style="list-style-type: none"> <li>✓ VoIP gateways</li> <li>✓ Configuration basics</li> <li>✓ IP-to-IP concept</li> <li>✓ Inbound and outbound routing</li> <li>✓ IP-to-IP SIP trunking scenario configuration example</li> <li>• SBC Survivability:                             <ul style="list-style-type: none"> <li>✓ Concepts</li> <li>✓ Configuration</li> </ul> </li> <li>• SBC High Availability:                             <ul style="list-style-type: none"> <li>✓ Concepts</li> <li>✓ Configuration</li> </ul> </li> </ul>
<b>Lab Activities</b>	<ul style="list-style-type: none"> <li>• Getting familiar with the GUI</li> <li>• SBC Routing</li> <li>• SBC Transcoding</li> <li>• Header Manipulation</li> <li>• SBC Survivability and PSTN Fallback</li> </ul>