

# AudioCodes Session Border Controller (SBC) Products

## Mediant™ SE/VE Session Border Controller (SBC)



### Benefits

- Designed for deployment in standardized data center environments
- Supports Network Functions Virtualization (NFV)
- Same code base as AudioCodes field-proven hardware-based SBCs
- Simplifies and accelerates SBC deployments
- Offers comprehensive security, interoperability and reliability
- Delivers high service performance and voice quality
- Flexible licensing options for cost-effective scalability
- Runs on dedicated COTS servers and in virtualized environments

### Key Features

- Scalable to thousands of SBC sessions
- Extensive SIP mediation capabilities
- Supports remote workers and mobile SIP clients
- Perimeter defense against denial of service, fraud and eavesdropping
- VoIP quality monitoring and enforcement
- Branch survivability during WAN failure
- Active/Standby High Availability

The **AudioCodes Mediant Server Edition (SE) and Virtual Edition (VE) Session Border Controllers (SBC)** are software-only versions of AudioCodes field-proven hardware-based SBC products, designed to offer service providers and enterprises a flexible and scalable SBC solution that meets the requirements of today's data center infrastructures. The Mediant SE/VE SBCs support wide-ranging SIP interoperability, delivering service assurance and enabling scalable, reliable and secured connectivity between different VoIP networks.

### Mediant SE (Server Edition)

- Runs on dedicated Commercial Off-the-Shelf (COTS) servers
- Aimed at high-scale environments

### Mediant VE (Virtual Edition)

- Runs in virtualized datacenter environments
- Supports VMware and Hyper-V

### Extensive Mediation Capabilities and Proven Interoperability

The Mediant SE/VE SBCs include comprehensive media security and SIP normalization capabilities. It offers full interoperability with an extensive list of IP-PBXs, unified communications solutions and SIP trunking provider networks.

### Security

The Mediant SE/VE SBCs provide robust protection for the IP communications infrastructure, preventing fraud and service theft and guarding against cyber-attacks and other service-impacting events.

### Reliability

The Mediant SE/VE SBCs offer active/standby high availability and maintain high voice quality to deliver reliable enterprise VoIP communications. Advanced call routing mechanisms, network voice quality monitoring and branch survivability capabilities result in minimum communications downtime.

### Applications

- SIP trunking
- Hosted PBX & UC as a Service
- IP contact centers
- Remote and mobile worker support
- SIP mediation between UC and IP-PBX systems
- Residential VoIP

## Mediant™ SE/VE

### SPECIFICATIONS

Capacities	Mediant VE SBC		Mediant SE SBC	
Max. Signaling/Media Sessions	2,000		16,000	
Max. SRTP-RTP Sessions	1,000		12,000	
Max. Registered Users	10,000		24,000	
Security				
Access Control	DoS/DDoS line rate protection, bandwidth throttling, Dynamic Blacklisting			
VoIP Firewall	RTP pinhole management, Rogue RTP detection and prevention, SIP message policy			
Encryption and Authentication	TLS, SRTP, HTTPS, SSH, Client/Server SIP Digest authentication, RADIUS Digest			
Privacy	Topology Hiding, User Privacy			
Traffic Separation	VLAN/physical interface separation for multiple Media, Control and OAM interfaces			
Intrusion Detection System	Detect and mitigate VoIP attacks, prevent Theft of Service and unauthorized access.			
Interoperability				
SIP B2BUA	Full SIP transparency, mature & broadly deployed SIP stack			
SIP interworking	3xx redirect, REFER, PRACK, Session Timer, Early media, Call hold, Delayed offer			
Registration	Registration and authentication on behalf of an IP-PBX			
Transport Mediation	SIP over UDP to SIP over TCP or SIP over TLS, IPv4 to IPv6, RTP to SRTP			
Header Manipulation	Ability to add/modify/delete headers using advanced regular expressions			
URI and Number Manipulations	URI User and Host name manipulations. Ingress & Egress Digit Manipulation			
Coder normalization	Coder enforcement and re-prioritization			
NAT	Local and Far End NAT traversal for support of remote workers			
Voice Quality and SLA				
Call Admission Control	Based on bandwidth, session establishment rate, number of connections/registrations			
Packet Marking	802.1p/Q VLAN tagging, DiffServ, TOS			
Stand Alone Survivability	Maintain local calls in the event of WAN failure			
Transparent Media	Low latency, unprocessed payload transfer			
Media De-anchoring	Hair-pinning of local calls to avoid unnecessary media delays and bandwidth consumption			
Redundancy	High availability with two box redundancy, Active calls preserved			
Voice Quality Monitoring	AudioCodes Session Experience Manager (SEM)			
Quality of Experience	Access control and media quality enhancements based on QoE and bandwidth utilization			
Test agent	Ability to remotely verify connectivity, voice quality and SIP message flow between SIP UAs			
SIP Routing				
Routing Methods	Request URL, IP Address, FQDN, ENUM, advanced LDAP			
Advanced Routing Criteria	QoE, bandwidth, SIP message (SIP request, Coder type etc)			
Redundancy	Detect proxy failures and route to alternative proxies			
Routing Features	Least cost routing, call forking, load balancing			
SIPRec	IETF standard SIP recording interface			
Mediant VE SBC Minimum Requirements				
Hypervisor	VMware ESXi version 5.1 or later / Hyper-V 2008 & 2012	Virtual NICs	2 (Standalone) 3 (High Availability)	
Memory	2 GB	Virtual CPUs	2	
Disk space	10 GB			

### ABOUT AUDIOCODES

AudioCodes Ltd. (NasdaqGS: AUCC) designs, develops and sells advanced Voice over IP (VoIP) and converged VoIP and Data networking products and applications to Service Providers and Enterprises. AudioCodes is a VoIP technology market leader focused on converged VoIP & data communications and its products are deployed globally in Broadband, Mobile, Enterprise networks and Cable. The company provides a range of innovative, cost-effective products including Media Gateways, Multi-Service Business Routers, Session Border Controllers (SBC), Residential Gateways, IP Phones, Media Servers and Value Added Applications. AudioCodes' underlying technology, VoIPerfect HDTM, relies on AudioCodes' leadership in DSP, voice coding and voice processing technologies. AudioCodes High Definition (HD) VoIP technologies and products provide enhanced intelligibility and a better end user communication experience in Voice communications.

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