

Session Border Controller

AudioCodes Mediant 4000 Session Border Controller (SBC)는 기업 및 서비스 공급자를 위한 중대 규모 솔루션으로서 서로 다른 VOIP 네트워크 간에 안정적이며 안전한 연결과 더불어 확장성까지 지원합니다.



최대 5,000개의 동시 세션까지 확장할 수 있는 Mediant 4000은 IP-PBX를 모든 SIP 트렁킹 서비스 공급자에 연결하고 모든 SIP를 SIP 환경에 연결할 때 탁월한 성능을 제공합니다.

Mediant 4000은 보안, 안정성 및 고효율성을 요구하는 기업 및 Contact Center, 대규모 데이터 센터, 호스팅 서비스 공급자 및 정부 기관과 같은 대규모 조직을 위한 완벽한 솔루션입니다.

5,000 SBC 세션 | Pure IP SBC | 1+1 고가용성 | 미디어 최적화를 지원하는 Teams Direct Routing 인증 SBC



포괄적인 상호 운용성

SIP 트렁크, 통합 커뮤니케이션 솔루션, PBX 및 IP 클라우드 서비스와 입증된 상호 운용성



유연한 라이선스 제공

기업 규모에 상관없이 쉽고, 효율적인 확장을 위한 다양한 라이선스 옵션 제공



강화된 보안

사이버, DoS 및 DDoS 공격 뿐만 아니라 도청, 사기 및 서비스 도난에 대한 강력한 경계 방어. FIPS(연방 정보 처리 표준) 140-2 레벨 1 준수



뛰어난 음성 품질

음성 서비스 품질 최적화 및 모니터링을 위한 고급 기능 지원



높은 복원력

1+1 이중화 및 로컬 분기 존속성을 사용한 고가용성

Specifications

Capacities		
	Mediant 4000	Mediant 4000B
Max. Signaling	5,000	5,000
Max. RTP/SRTP Sessions	5,000/3,000	5,000
Max. Transcoding Sessions	2,400	5,000
Max. Registered Users	20,000	20,000
Network Interfaces		
Ethernet	8 100/1000 Base-T Ethernet ports for physical separation between multiple LAN and WAN between Media, Control and OA&M	
Security		
Access Control	DoS/DDoS line rate protection, bandwidth throttling, dynamic blacklisting (Intrusion Detection System)	
VoIP Firewall	RTP pinhole management, rogue RTP detection and prevention, SIP message policy, advanced RTP latching	
Encryption/Authentication	TLS, DTLS, SRTP, HTTPS, SSH, client/server SIP Digest authentication, RADIUS Digest	
Privacy	Automatic topology hiding, user privacy	
Traffic Separation	VLAN/physical interface separation for multiple media, control and OAMP interfaces	
Certification	FIPS 140-2 Level 1	
STIR/SHAKEN	STIR/SHAKEN support. Interworking with STI-AS/VS	
Interoperability		
SIP B2BUA	Full SIP transparency, mature and broadly deployed SIP stack, stateful proxy mode	
SIP Interworking	3xx redirect, REFER, PRACK, session timer, early media, call hold, delayed offer and more	
Registration and Authentication	SIP Registrar, registration on behalf of users/servers, SIP Digest access authentication	
Transport Mediation	Mediation between SIP over UDP/TCP/TLS/WebSocket, IPv4/IPv6, RTP/SRTP (SDES/DTLS)	
Header Manipulation	Add/modify/delete SIP headers and message body using simple WireShark-like language with powerful capabilities such as variables and utility functions	
URI and Number Manipulations	URI user and host name manipulations, ingress and egress digit manipulation	
Transcoding and Vocoders	Coder normalization including transcoding, coder enforcement and re-prioritization, extensive vocoder support: G.711, G.723.1, G.726, G.729A/B, GSM-FR, AMR-NB, AMR-WB (G.722.2), SILK-NB/WB, Opus-NB/WB	
Signal Conversion	DTMF/RFC 2833/SIP, T.38 fax, packet-time conversion	
WebRTC Gateway	Interworking between WebRTC endpoints and SIP networks. Supports WebSocket, Opus, VP8 video coder, lite ICE, DTLS, RTP multiplexing, secure RTCP with feedback.	
NAT	Local and far-end NAT traversal for support of remote workers	
Voice Quality and SLA		
Call Admission Control	Limit number and rate of concurrent sessions and registers per peer for inbound and outbound directions	
Packet Marking	802.1p/Q VLAN tagging, DiffServ, TOS	
Standalone Survivability	Maintains local calls in the event of WAN failure.	
Voice Monitoring and Enhancement	Transrating, RTCP-XR, Acoustic echo cancellation, replacing voice profile due to impairment detection, fixed and dynamic voice gain control, packet loss concealment, dynamic programmable jitter buffer, silence suppression/comfort noise generation, RTP redundancy, broken connection detection	
Direct Media	Hair-pinning (no media anchoring) of local calls to avoid unnecessary media delays and bandwidth consumption	
High Availability	SBC high availability with two-box redundancy, active calls preserved	
Test Agent	Ability to remotely verify connectivity, voice quality and SIP message flow between SIP UAs	
SIP Call Handling		
Criteria	Incoming SIP trunk, DID ranges, host names, any SIP headers, codecs, QoE, bandwidth	
Querying External Databases	Decisions based on customized queries of ENUM, LDAP, HTTP server (REST API)	
Available Destinations	Configured SIP peers, registered users, IP address, request URI	
Advanced Features	Alternative destinations, load balancing, LCR, call forking, E911 emergency call detection and prioritization	
Multiple LANs	Support for up to 48 separate LANs	
SBC Media Types	Audio\Video\Fax\Text\Message Session Relay Protocol (MSRP)\Binary Floor Control Protocol (BFCP)	
SIPREC	IETF standard SIP recording interface, supporting both audio and video SBC sessions	
Management		
OAM&P	Browser-based GUI, CLI, SNMP, INI Configuration file, REST API, CDR,One Voice Operations Center (OVOC)	
Multi Tenancy	Advanced multi-tenant SBC partitioning	
Physical/Environmental		
	Mediant 4000	Mediant 4000B
Dimensions	1U x 19" (444mm) x 14" (355mm) (HxWxD)	1U x 19" (444mm) x 14.9" (378mm) (HxWxD)
Weight	Approx. 11.7 lbs (5.3Kg)	Approx. 16.3 lbs (7.4Kg)
Mounting	Desktop or 19" rack mount	
Power	Dual power supply (hot- swappable): 100-240VAC 50-60Hz 2.5A max	Dual universal power supply (hot- swappable): 40-60VDC, 17A max., or 100-240 VAC, 50-60 Hz, 7A max
Environmental	5°-40° C	

* Requires a dedicated software build