AudioCodes Session Border Controllers

DATASHEET

Mediant[™] 4000

Session Border Controller

The AudioCodes **Mediant 4000 session border controller (SBC)** is a mid-to-high scale capacity solution for enterprises and service providers, delivering service assurance and enabling scalable, reliable and secured connectivity between different VoIP networks.



Scaling up to 5,000 concurrent sessions, the Mediant 4000 connects IP-PBXs to any SIP trunking service provider and offers superior performance in connecting any SIP to SIP environment.

The Mediant 4000 is a perfect solution for enterprises and large organizations such as contact centers, large data centers, hosted service providers and government institutions where security, reliability and high performance are critical.

5,000 SBC Sessions | Pure IP SBC | 1+1 High Availability | Supports OPUS and SILK



Comprehensive interoperability Proven interoperability with SIP trunks, SIP platforms and IP cloud services



Flexible licensing Various licensing options for easy and cost-effective scalability regardless of enterprise size



Enhanced security Robust perimeter defense against cyber, DoS and DDoS attacks, as well as eavesdropping, fraud and service theft



Superior voice quality Advanced capabilities for optimizing and monitoring voice service quality



High resiliency High availability using 1+1 redundancy and local branch survivability



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Mediant[™] 4000

| 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 bet | ween 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 | Topology hiding, user privacy | |
| Traffic Separation | VLAN/physical interface separation for multiple media, control and OAMP interfaces | |
| 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 worke | rs |
| 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 | |
| - | Ability to remotely verify connectivity, voice quality and sin h | |
| 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 | |
| SIPREC | IETF standard SIP recording interface | |
| Management | | |
| OAM&P | Browser-based GUI, CLI, SNMP, INI Configuration file, REST API, EMS | |
| 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 |
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