

Sonus Session Border Controller SWe

The Sonus Session Border Controller Software Edition (SWe) is the industry's only software-based, cloud-optimized SBC architected to enable and secure real-time communications in the cloud without compromise. The SBC SWe features the same code base, resiliency, media transcoding, and security technology found in Sonus' award-winning hardware-based Sonus SBC 5000 Series and SBC 7000 Session Border Controllers. The only difference is how customers choose to deploy it: as a Virtual Network Function (VNF) on industry-standard servers in a data center environment using a hypervisor, as a VNF in an OpenStack cloud infrastructure, or as a VNF on public cloud or hosted services including Amazon Web Services (AWS). The SBC SWe operates seamlessly with the existing Sonus SBC product portfolio.



Sonus' strategy capitalizes on its heritage of enabling secure, reliable, and scalable real-time communications, beginning with the transition from TDM to IP, and now into the cloud. Sonus' SBC SWe is the only SBC in the marketplace architected to enable and secure real-time communications in the cloud without compromising on performance or scale. Starting at 25 sessions, and scaling to tens of thousands per instance, the unique architecture of the SBC SWe allows customers to define where on the performance curve their network needs to reside. The SBC SWe uses a microservices design to separate signaling, media and transcoding to optimize virtual network resources. It also supports on-demand auto-scaling, with a feedback loop using Key Performance Indicators and the Sonus Virtual Network Function Manager (VNFM). Designed to be simple but robust, and agile but predictable, the SBC SWe makes it easy for customers to reach new markets and new revenues with secure SIP and Unified Communications (UC) services:

- Unleash RTC performance with automated scale on demand in the cloud
- Be more responsive to your customers with optimized operations efficiency, turn up VNFs in minutes (auto configuration)
- Load-balance RTC traffic across the cloud for network efficiency
- Deploy SBC services into new regions without a truck-roll, reducing the delivery costs of real-time communications
- Integrated analytics of network traffic to drive orchestration of SBC VNFs
- Network-wide licensing flexibility to deal with the varying traffic demands across the different interconnection points
- Independently scale in a microservices architecture and manage SBC signaling, media, and transcoding to optimize network investment

Media Services

- Transcoding G.711, G.722, G.723, G.726, G.729A/B, AMR-NB, AMR-WB, EVRCB0, EVRCO, iLBC, Opus
- Wireline, wireless, clear channel codec and fax pass-through
- VAD, Silence Suppression, Dynamic Jitter Buffer, DTMF/Tone Relay/RFC2833/RFC4733 interworking
- NAT/NAPT on media
- DTMF Trigger Detection and Notification
- Tones & announcements
- Local Ring Back Tone (LRBT) support with centralized PSX Policy Server
- RTP inactivity monitoring
- Video codec pass-through: H.264 AVC, H.264 SVC, H.263+, H.263, H.261 and VP8
- SIPREC
- Message Session Relay Protocol (MSRP)

Management Capabilities

- Graphical-based wizards for ease of configuration
- Virtual Network Function Manager (VNFM) for VNF life cycle management
- Integration with leading cloud orchestration vendors
- Secure embedded web-based management GUI
- Sonus CLI, SSH
- Centralized support by Sonus EMS
- SNMP V2/V3 status and statistics
- Local logging of events, alarms, and traps; call trace
- Sonus DSI Level 0 support for storing CDRs; RADIUS accounting records
- Live Software Update (LSWU)
- 1:1 High Availability
- Lawful Intercept provisioning

Signaling

- Back-to-Back User Agent (B2BUA)
- SIP, SIP-I/SIP-T, SIP/H.323
- SIP protocol normalization/ protocol repair; SIP Message Manipulation
- NAT/NAPT on signaling
- Binary floor control protocol (BFCP)
- Far-end camera control (FECC)

Protocol Support

- IPV4, IPV6, IPV4/IPV6 interworking
- SSH; SFTP
- SNMP; NETCONF; NTP
- HTTP/HTTPS
- RTP/RTCP
- UDP, TCP
- DNS, ENUM
- NTP per RFC-1708

Routing/Policy

- Embedded policy/routing engine
- Optional centralized policy/routing via Sonus Centralized Policy Server (PSX Server) using Diameter+
- Screening, blocking, routing, presentation, call type filters
- Route prioritization
- Leading digit routing; international routing; URI-based routing
- Digit/parameter manipulation
- E911 support; Priority Call handling

Security

- Session-aware firewall; topology hiding
- Line rate DoS/ DDoS, and Rogue RTP protection
- Line rate malformed packet protection
- TLS, IPSec (IKEV1) for signaling encryption
- Secure RTP/RTCP for media encryption

Quality of Service (QoS)

- Bandwidth management
- Call Admission Control (CAC) per trunk group, per zone
- Per-call statistics
- TOS/COS packet marking

Minimum Requirements

- 4 Intel-based virtual CPUs (vCPUs)
- 8GB of RAM
- 4 virtual NICs (vNICs)
- 100GB hard disk space

Certifications

- Microsoft Skype for Business and Lync 2013
- BroadSoft BroadWorks Platform

Software Platforms

- VMware 5.0 and higher
- Microsoft Hyper-V
- KVM
- Amazon AWS
- OpenStack

About Sonus Networks

Sonus enables and secures real-time communications so the world's leading service providers and enterprises can embrace the next generation of SIP and 4G/LTE solutions, including VoIP, video, instant messaging, and online collaboration. With customers in more than 50 countries and nearly two decades of experience, Sonus offers a complete portfolio of hardware-based and virtualized Session Border Controllers (SBCs), Diameter Signaling Controllers (DSCs), policy/routing servers, and media and signaling gateways. For more information, visit www.sonus.net or call 1-855-GO-SONUS. Sonus is a registered trademark of Sonus Networks, Inc. All other company and product names may be trademarks of the respective companies with which they are associated.

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