

Sonus Session Border Controller Software Edition (SBC SWe)

The Sonus Session Border Controller Software Edition (SWe) is the industry's only software-based, cloud native 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, 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, EVRC0, 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.265, H.264 AVC, H.264 SVC, H.263+, H.263, H.261 and VP8, VP9
- 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 brings the next generation of Cloud-based SIP and 4G/VoLTE solutions to its customers by securing mission-critical traffic for VoIP, video, IM, and online collaboration. With Sonus, enterprises can secure and prioritize real-time communications, while service providers can deliver reliable, secure real-time services for mobile, UC, and social applications. Sonus offers an award-winning portfolio of hardware-based and virtualized Session Border Controllers (SBCs), Diameter Signaling Controllers (DSCs), Policy/Routing servers, and media/signaling gateways. Visit www.sonus.net or call 1-855-GO-SONUS. Follow Sonus on Twitter, Facebook, LinkedIn, YouTube and Instagram.

Sonus Networks North American Headquarters

4 Technology Park Drive
Westford, MA 01886
U.S.A.
Tel: +1-855-GO-SONUS

Sonus Networks APAC Headquarters

1 Fullerton Road #02-01
One Fullerton
Singapore 049213
Singapore
Tel: +65-68325589

Sonus Networks EMEA Headquarters

Edison House
Edison Road
Dorcan, Swindon
Wiltshire
SN3 5JX
Tel: +44-14-0378-8114

Sonus Networks CALA Headquarters

Homero No. 1933-902
Col. Los Morales, C.P. 11510
Mexico City, Mexico
Distrito Federal
Mexico Tel: +52-55-1950-3036
Int'l Tel: +1-978-614-8741

To learn more, call Sonus at 855-GO-SONUS
or visit us online at www.sonus.net

Microsoft Partner
Gold Communications

Voice
Unified Communications
Business Productivity Solutions
Midmarket Solution Provider

The content in this document is for informational purposes only and is subject to change by Sonus Networks without notice. While reasonable efforts have been made in the preparation of this publication to assure its accuracy, Sonus Networks assumes no liability resulting from technical or editorial errors or omissions, or for any damages resulting from the use of this information. Unless specifically included in a written agreement with Sonus Networks, Sonus Networks has no obligation to develop or deliver any future release or upgrade, or any feature, enhancement, or function.

Copyright © 2017 Sonus Networks, Inc. All rights reserved. Sonus is a registered trademark of Sonus Networks, Inc. All other trademarks, service marks, registered trademarks, or registered service marks may be the property of their respective owners.