

Sonus SBC-7000 Session Border Controller



Product Name: Sonus SBC-7000 Session Border Controller

Manufacturer: Sonus

Model Number: SBC-7000

Please Note: Sonus SBCs are highly customisable depending on the solution required. Before you enquire, please have answers to the following questions. This product may also have a lead time of up to 1-2 weeks.

Sonus SBC-7000 Session Border Controller

The Sonus SBC 7000 Session Border Controller is purpose-built with industry-leading performance and scale that deliver increased operational efficiency and uncompromised quality of service to help service providers securely, efficiently handle and monetize the massive amount of audio, video and collaboration traffic crossing their networks. The SBC 7000 not only provides the critical features service providers equate with Sonus Session Border Controllers (robust security, sophisticated routing and policy management, overload controls and SIP normalization), it also delivers IPv4-IPv6 interworking, high density media transcoding, and sophisticated policy at high performance levels to meet the increasing demands of multimedia communications. To further simplify deployment, the SBC 7000 implements a fully modular chassis design, enabling service providers to rapidly scale today's networks while preparing for future growth.

Sonus SBC-7000 Session Border Controller - Technical Specifications

System Capabilities

- Sessions
 - 150,000 simultaneous sessions
 - Up to 120,000 transcoded sessions based on codec
 - Up to 32,000 H.323 call legs
 - RTCP sessions scale 1:1 with RTP sessions
 - 40,000 Trunk Groups per system
 - 4096 VLANs
 - Call Set-Up
 - 1350 cps
 - Registrations
 - Total registered end point support: 1,200,000
 - Encryption
 - Maximum number of TLS sessions: 765,000
 - TLS set-up rate: 2000/sec
 - Maximum # of IPsec tunnels: 4096
 - Maximum # SRTP sessions: 150,000

Media Services

- Transcoding G.711, G.726, G.729A/B, G.723, iLBC, G.722, G.722.1, AMR-NB, AMR-WB, EVRCB0, EVRC0
- Wireline, wireless, wideband and clear channel codec pass through
- T.38 compliant fax relay or fall back to G.711
- VAD, silence suppression, dynamic jitter buffer, fax/modem detection, DTMF/tone relay/RFC2833/RFC4733 interworking
- NAT/NAPT on media
- DTMF trigger detection and notification
- Generic audio codec relay
- Tones & announcements
- Local Ring Back Tone (LRBT) support with centralized PSX Policy Server
- RTP inactivity monitoring

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- Supported video codecs: H.264 AVC, H.264 SVC, H.263+; H.263, H.261, VP8

Redundancy

- 1:1 redundant systems for service availability
- 1:1 redundant management/control ports
- 1:1 redundant media ports

Management Capabilities

- Graphical based wizards for ease of configuration
- 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)

Signaling

- Back to back user agent (B2BUA)
- SIP, SIP-I/SIP-T, SIP/H.323; Sonus gateway to gateway signaling
- 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; NTP
- HTTP/HTTPS
- RTP/RTCP
- UDP, TCP
- DNS, ENUM

Routing/Policy

- Embedded policy/routing engine
- Centralized support by Sonus PSX Policy/Route 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

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Quality of Service (QoS)

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

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Packet Network Time Source

- Network Time Protocol (NTP) per RFC-1708

Weight Maximum Fully Populated

- 98 lbs. (44.4kg)

Sonus SBC Sizing Qualification

What is the SBC deployment method/architecture? (Per site)

- “Downstream” - SBC connects to either PSTN or PBX? (& Lync/SfB)
- “Upstream” - co-existence/migration - SBC connects to both PSTN and PBX? (& Lync/SfB)

How many PBX/UC connections does Sonus SBC need to support? (Per site)

- PRI/ ISDN30/ E1 - Number of channels or trunks to PBX (confirm signaling type ETSI/QSIG) (Important: DASS2/DPNSS not supported)
- BRI/ ISDN2 - Number of channels or trunks to PBX?
- Analogue - Number of anticipated analogue (FXS) endpoints including analogue phones (PoT), fax machines, PDQ, lift phones etc
- SIP and/or Microsoft Lync/’Skype for Business’ sessions - Number of concurrent calls/channels?

How many PSTN connections does Sonus SBC need to support? (Per site)

Specify quantity and type?

- SIP Trunk sessions - Number of concurrent calls/channels to PSTN
- PRI/ ISDN30 /E1 - Number of channels or trunks to PSTN (confirm signaling type ETSI/QSIG) (Important: DASS2/DPNSS not supported)
- BRI/ ISDN2 - Number of channels or trunks to PSTN
- Analogue - Number of FXO ports/line to PSTN

Microsoft Lync/’Skype for Business’ Deployments

Is ’SBA’ required? Survivable Branch Appliance (SBA)

If yes, how many local Lync users will register with SBA?

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Is Sonus SBC to process inbound/outbound ACD/Call Center Calls? (Per site)
If yes, please specify

- Inbound, Outbound, or Both
- What is the expected CPS (Calls Per Second) setup rate?
- Is a predictive dialer in use?

Is there anything else we should know about?

Please Enquire
