The ABCs of SBCs
Session Border Controllers (SBCs) work behind the scenes to ensure that voice, video and data communications flow smoothly and securely between networks and the people who use them. An SBC is part firewall, protecting the network from IP-based attacks; part traffic cop, policing traffic to prevent overloads and directing it over shorter distances to save money; and part peacemaker, ensuring that networked devices from different vendors all speak the same language. Why does a network need an SBC? Because, in order to take advantage of new IP-based communications services like SIP trunking, VoIP, video and Unified Communications, networks must have an SBC in place to provide the requisite security, control and interoperability for these services.

The World’s Most Reliable, Secure SBCs
What makes Sonus SBCs stand apart from the competition? Maybe it's because the world’s most demanding networks have trusted Sonus to deliver high-quality SIP communications for more than 15 years. Or maybe it's because we offer more choices than anyone else, with six unique SBC models that scale from small businesses to the world’s largest service provider networks. But more than likely it comes down to something simple: Sonus SBCs simply work, no matter what kind of network you have, by embracing multi-vendor and legacy communications solutions rather than replacing them.

<table>
<thead>
<tr>
<th>Feature</th>
<th>SBC SWe</th>
<th>SBC 7000</th>
<th>SBC 5210</th>
<th>SBC 5110</th>
<th>SBC 2000</th>
<th>SBC 1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Session count (max)</td>
<td>Unlimited</td>
<td>150,000</td>
<td>64,000</td>
<td>10,000</td>
<td>600</td>
<td>160</td>
</tr>
<tr>
<td>Independent performance verified</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Microsoft Lync qualified</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>BroadSoft validated</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Encryption (TLS, SRTP, IPsec)</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>DoS/DDoS protection</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>SIP interworking</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>H.323 interworking</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>TDM interworking</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>PBX interop</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Media transcoding</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Embedded routing engine</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Centralized policy enforcement</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

Industry-Leading Interworking Across Voice, Video and Collaboration
Sonus is the only vendor in the market with the ability to provide video interworking among endpoints from various vendors without compromising SBC performance or scale. By enabling interoperability between video endpoints, Sonus SBCs help companies maximize current video investments while providing the freedom for businesses to use the devices of their choice without being locked into one vendor or endpoint device.
Sonus SBC SWe
The Sonus SBC SWe Session Border Controller is the industry’s only software-based Session Border Controller (SBC) that delivers user-defined scalability with the same advanced features and functionality of hardware on a virtualized platform—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 Session Border Controller Series. The only difference is how customers choose to deploy it: on industry-standard servers or in virtualized environments. The SBC SWe operates seamlessly with the existing Sonus SBC product portfolio. Scalable from 25 to an unlimited number of sessions, the unique architecture of the SBC SWe allows customers to define where on the performance curve their network needs to reside.

Features/Benefits
• Rapidly extend interworking capabilities with just a license
• Deliver the same advanced SBC functionality and features to businesses anywhere in the world
• Deliver hosted SBC services from a virtual environment for scalable performance at a flexible price
• Deploy SBC services into new regions without a truck roll

Sonus SBC 7000™ Session Border Controller
The Sonus SBC 7000 Session Border Controller is purpose-built with industry-leading performance and scale that delivers 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 management at high performance levels to meet the increasing demands of multimedia communications. To further simply deployment, the SBC 7000 implements a fully modular chassis design, enabling service providers to rapidly scale today’s networks while preparing for future growth.

Features/Benefits
• Scalable to 150,000 sessions, delivering unparalleled performance and session capacity
• Industry-leading density reduces OpEx, decreases provisioning time and increases customer experience
• Customized, built-in media transcoding firmware that no other SBC vendor can offer
• A proven platform built upon the same architecture as the Sonus SBC 5000 Series

Sonus SBC 5210™ Session Border Controller
The Sonus SBC 5200 Session Border Controller is a powerful, compact and purpose-built SBC designed for SIP trunking, Unified Communications, VoIP, video and other SIP-based communications. The SBC 5200 delivers all of the features that enterprises and service providers need in an SBC today—robust security, sophisticated routing and policy management, overload controls, SIP normalization—plus the features they’ll need tomorrow, like IPv4-IPv6 interworking, centralized policy management, built-in media transcoding, cost-efficient scalability and high performance under heavy traffic.

Features/Benefits
• Scalable to 64,000 sessions per box—industry-leading performance and session capacity
• Customized, built-in media transcoding firmware that no other SBC vendor can offer
• Delivers 99.999% uptime—that’s less than six minutes of downtime per year
• Works in multi-vendor networks with Avaya, BroadSoft, Cisco, Microsoft Lync and many other solutions
Sonus SBC 5110™ Session Border Controller

Built for medium to large enterprises and regional service providers, the Sonus SBC 5100 Session Border Controller is a powerful "mid-sized" SBC that delivers robust network security features, flexible SIP session routing and policy management, and built-in multimedia transcoding—all at a price that even smaller enterprises can afford. With high-end features you won’t find in other mid-sized SBCs, the SBC 5100 allows enterprises and regional service providers to deliver a world-class communications experience designed for their world.

Features/Benefits
- **Leading-edge technology** designed to address the fast-growing enterprise SBC market
- **A proven platform** that delivers the same architecture/features as the SBC 5200 at a lower entry price
- **Advanced features** including built-in media transcoding and sophisticated security controls
- **Works in multi-vendor networks** with Avaya, BroadSoft, Cisco, Microsoft Lync and many other solutions

Sonus SBC 2000™ Session Border Controller

The Sonus SBC 2000 Session Border Controller is an advanced SBC designed to help medium-sized enterprise networks safely and cost-effectively embrace the new multi-vendor world of SIP-based communications, such as Voice over IP (VoIP) and Unified Communications. The SBC 2000 delivers all of the features you would expect in an enterprise-class SBC, including security, built-in media transcoding, SIP interworking and intelligent call routing. The Sonus SBC 2000 also has a unique feature not found in other solutions: survivable branch appliance (SBA) functionality that enables the SBC to complete voice calls over the PSTN should the enterprise WAN go down.

Features/Benefits
- **Low cost of entry**—session-based licensing allows enterprises to start small and scale as they grow (up to 600 concurrent sessions) without high upfront costs
- **Performance you can trust**—combines SBA features in an SBC device for 24/7/365 communications even during IP network outages
- **TDM interconnect** for trunking and analog connections, including fax machines, lobby phones, etc.
- **Microsoft Lync quality of experience (QoE) monitoring**—the SBC 1000 and SBC 2000 are the only SBCs on the market that monitor the entire call flow

Sonus SBC 1000™ Session Border Controller

The award-winning SBC 1000 Session Border Controller delivers all of the functionality of the SBC 2000 in a solution right-sized for medium businesses and branch offices (up to 160 concurrent sessions). The SBC 1000 delivers built-in media transcoding, network security (encryption, authentication, DoS protection, etc.), robust SIP interworking, intelligent call routing, multi-vendor interoperability and 24/7/365 survivability. The Sonus SBC 1000 and the Sonus SBC 2000 Session Border Controllers are the only SBC solutions available which offer Microsoft Lync survivability through either a 3G/4G or PSTN connection to provide reliability in the event of a wide area network (WAN) failure.

Features/Benefits
- **Lowest cost of entry**—session-based licensing allows enterprises to get high-end SBC features at a low entry price
- **TDM interconnect** for trunking and analog connections, including fax machines, lobby phones, etc.
- **Get started quickly**—both the SBC 2000 and SBC 1000 can be provisioned and operational in as little as one hour
- **Microsoft Lync quality of experience (QoE) monitoring**—the SBC 1000 and SBC 2000 are the only SBCs on the market that monitor the entire call flow
Sonus SBC 9000™ Session Border Controller

For networks that experience a mix of PSTN and VoIP traffic, the Sonus SBC 9000 Session Border Controller provides a hybrid solution that combines the Sonus GSX 9000® TDM/IP softswitch solution with advanced SBC capabilities for secure IP-to-IP communications. The SBC 9000 supports up to 30,000 concurrent calls/sessions and delivers all of the robust features you would expect in a high-end SBC, including media transcoding, encryption/authentication, DoS/DDoS protection, centralized policy management, and broad signaling interworking with SIP, H.323 and TDM systems.

Sonus = InteroperAbility

In today’s multi-vendor networks, interoperability provides assurance that different networks (and different network elements from a variety of vendors) can communicate effectively with one another. Our solutions are designed and tested to provide interoperability with legacy equipment (TDM, H.323), multiple SIP vendors and standards, application providers and international standards, to name only a few. With the industry’s broadest portfolio of Microsoft Lync-qualified SBCs, Sonus gives enterprises and service providers more choices to communicate more effectively, more efficiently and more intelligently.

SBC Implementation Services from Sonus

Whether you need a little help or a lot, onsite support or remote assistance, count on Sonus Global Services to be there for your business. We offer flexible SBC Implementation Services to help service providers and enterprises get more from their SBCs in less time:

• SBC Implementation Services, featuring planning, configuration and testing; and
• Supplemental SBC Services, including design consulting, technical support and project management

SIP Runs Better on Sonus

Sonus builds real-time communications solutions for the real world. Since introducing the first carrier-class VoIP switch in 1997, we’ve helped the world’s leading communications providers and enterprises move the conversation forward from analog voice to SIP-based multimedia. Today, Sonus session border controllers and SIP session management/policy solutions are driving the next generation of change toward Unified Communications, Cloud services and beyond.