

Top 10 Reasons to Choose Sonus Enterprise SBCs

The cost advantages of SIP trunking and the need for secure SIP session management are driving more enterprises to implement Session Border Controllers (SBCs) in their network. How can an enterprise be sure that the SBC solution they're buying is a true enterprise-ready solution and not simply a carrier SBC solution with fewer sessions? By measuring the SBC's performance in a real-world enterprise environment: frequent SIP interworking, heavy encryption workloads, media transcoding, interworking with a mix of legacy PBX systems, and a growing need to interconnect IPv4 and IPv6 devices.

1 Interoperability with Legacy TDM/H.323 Systems

Sonus SBCs support both TDM and IP traffic in the same device, with hot-swappable circuit- and packet-switched processors that allow enterprises to migrate from TDM-IP to all-IP traffic at their own pace. Sonus SBCs also provide legacy PBX interworking with simultaneous support for TDM, H.323, and SIP PBXs.

2 Robust SIP Interoperability

SIP interoperability is a requirement for enterprises that need to interconnect different IP PBX boxes, multivendor VoIP switching equipment, SIP trunking services, IP-based Interactive Voice Response (IVR) systems, etc. Sonus SBCs provide robust SIP interworking, offering both dynamic and static SIP normalization between a multitude of enterprise IP devices.

3 IPv4/IPv6 Interoperability

With the imminent exhaustion of IPv4 addresses, the world will soon transition to IPv6, creating the need for IPv4 and IPv6 devices to communicate with one another. Sonus SBCs provide flexible IPv4-to-IPv6 interoperability, so legacy devices and new IPv6-enabled devices can communicate seamlessly.

4 High Availability/Disaster Recovery

Enterprise communications require 99.999% availability and reliable disaster recovery provisions. Sonus SBCs are engineered to provide ultra-high reliability through a redundant active/standby architecture that ensures the system has no single point of failure. Sonus SBCs also demonstrate rapid recovery after power outages. In a recent Miercom test, the Sonus SBC 5200™ re-registered IAD endpoints after a simulated system outage 8x faster than the leading competitor.

5 Centralized Policy Management

When it comes to policy control, Sonus SBCs give enterprises a choice: a local embedded routing and policy engine for standalone deployments, or a centralized policy engine via the PSX™ server. Both configurations have their advantages; the Embedded PSX (E-PSX) can provide lower latency, while the centralized policy server provides multi-SBC deployments with tremendous cost and time savings through simplified provisioning management.

6 High Performance During Overload/Attack

While many SBCs perform well under ideal conditions, the Sonus SBC's unique multiprocessor design demonstrates high performance even during overload/attack conditions. A recent Miercom performance study found that the SBC 5200 performed 400% better than the leading competitor during overload conditions, and confirmed in a simulated spoofing attack that "there was no observed impairment of active calls sustained or failure to place new calls while under attack conditions."

How Does the Sonus SBC Stack Up Against the Competition?

Feature	Sonus	Leading
TDM interoperability	✓	✗
SIP interoperability	✓	✓
IPv4/IPv6 interworking	✓	✓
High performance during overload/attack	✓	✗
Centralized policy management	✓	✗
Rapid endpoint re-registration	✓	✗
Built-in media transcoding	✓	✗
Near-linear performance scalability	✓	✗
High-performance encryption	✓	✗
Rapid deployment	✓	✓

7 Built-In Media Transcoding
 Transcoding between media codecs is increasingly important to enterprise communications, especially as more enterprises look to support a variety of high-definition (HD) voice codecs. Sonus SBCs have always featured built-in media transcoding, which results in better call quality and more efficient processing of calls that require codec translations between both HD and non-HD devices.

8 Near-Linear Scalability
 Both the Sonus SBC 5200 and NBS9000™ Session Border Controllers provide near-linear scalability to handle millions of subscriber sessions. This scalability stems from Sonus' heritage in building network solutions for the world's largest carriers, resulting in a Sonus architecture that is practically limitless.

9 High-Performance Encryption
 Enterprise VoIP networks require strong security measures, to protect both internal and customer communications and information. Sonus SBCs provide industry-leading security features, including TLS, SRTP, and IPsec encryption, B2B User Agent functionality for topology hiding, and much more. While many SBCs offer similar security features, Sonus SBCs have built-in encryption hardware and dedicated processors to encrypt media and signaling information, which results in very little impact on SBC performance even when 100% of calls are encrypted.

10 Rapid Deployment
 The Sonus SBC 5200 delivers rapidly deployable plug-and-play functionality in a pure IP appliance form factor. An SBC 5200 can be installed in an enterprise network and "turned on" in less than two hours.

Miercom Performance Verified



Miercom Test	Sonus NBS9000	Sonus SBC 5200
Registration Avalanche (registration rate)	300,000 IADs in 22 minutes (75K NATTED)	256,000 IADs in 16 minutes (64K NATTED)*
CPU utilization (baseline load)	Between 35-47% (5,000 simultaneous calls)	34.40% (3,000 simultaneous calls)
CPU utilization (during attack storm)	Between 39-48%	38.39%
Concurrent calls	27,459	64,000

*Subsequent to Miercom Performance testing, Sonus SBC 5200 now supports up to 256K NATTED endpoints.

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), Cloud Exchange Networking Platform, 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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