

Sonus ASX Feature Server

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fixededge



A SONUS NETWORKS PRODUCT

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The ASX server supports a rich set of Class 5 features that can be easily combined into a virtually unlimited number of unique, competitive services.

A Smarter Future, A World of Features

The Sonus ASX™ Feature Server is deployed worldwide by leading carriers, cable providers, ISPs and other alternative service providers to deliver an industry-leading array of consumer and small business call features. It provides a common set of subscriber services over any access technology: Voice over Broadband, Voice over WiMAX, cable, Ethernet and more.

Built with carrier-class scalability, reliability and Session Initiation Protocol (SIP) services, the ASX supports packet connectivity to a variety of Integrated Access Devices (IADs), multiservice gateways, next-generation Digital Loops Carriers (DLCs), softphones and other Internet Protocol (IP) endpoints. The ASX server is an integral component of Sonus' advanced, standards-compliant IP Multimedia Subsystem (IMS) architecture, the market-leading, carrier-class infrastructure for IP-voice/multimedia services.

The ASX server is designed and tested to excel in compliance with the emerging IP architectural standards:

- > **For IMS architectures**, the ASX server acts as an IMS industry standard-specified feature server and an Access Gateway Controller Function (AGCF) by working with other IMS-specified components, such as the distributed Serving Call Session Control Function (S-CSCF). The ASX server can alternatively provide call processing and session control depending on the service provider's requirements.
- > **For cable operator architectures**, the ASX server is a qualified Cable Labs PacketCable Call Management System (CMS) supporting NCS transport, DQoS and security features.
- > **For alternative carriers and ISPs**, the ASX server provides cost-effective, seamless scalability, flexible deployments and complete solution bundles.

THIRD-PARTY APPLICATION INTEROPERABILITY / The ASX Feature Server is compatible with market-leading third-party applications from Sonus' Open Services Partner Alliance (OSPA). With the ASX platform integrated with these SIP-based enhanced services applications, Sonus' architecture delivers seamless Class 5, voicemail, Centrex, auto-attendant, unified messaging, prepaid calling card and other services to subscribers over broadband access networks.

ROBUST INTEROPERABILITY WITH LEGACY AND IP NETWORKS / For PSTN interconnection, the ASX server seamlessly interoperates with the Sonus GSX Open Services Switches and the Sonus SGX™ signaling gateway to extend robust SS7/C7 signaling support to the network edge. This includes TCAP support and international ISUP variants for access to worldwide circuit-based networks and services. The ASX server also interfaces with the packet network using

100 Base-T Ethernet and supports MGCP, SIP and the cable standard NCS to control a wide variety of access devices. For IP-to-IP access network security, the ASX server interoperates with the leading-edge Sonus Network Border Switch.

SEAMLESS SCALABILITY / The ASX platform delivers modular scalability from entry-level systems of 10,000 lines to networks supporting millions of lines. As the network grows, multiple ASX servers can share a single subscriber database, which provides feature transparency as well as simplified upgrades and management.

FLEXIBLE, FULL-FEATURED PROVISIONING / Comprehensive customer provisioning is provided by the Sonus Insight™ Element Management System, which supports three different subscriber levels including enterprise, business group and individual subscriber. With customizable interfaces for feature selection and call control, this flexible system uses lightweight protocols to facilitate system administration from any location worldwide. Additionally, the Sonus solution seamlessly integrates with existing back-office systems for provisioning, management and billing without having to manage multiple, independent systems.

CARRIER-CLASS RELIABILITY / The ASX server is designed for 99.999% uptime, providing carrier-class reliability. The ASX server is typically configured redundantly on industry-standard, NEBS-compliant computing platforms in a hot-standby mode, ensuring no loss of active calls upon switchover. The ASX server also supports live software upgrades, allowing new features to be added without taking systems out of service.

SONUS IMS ARCHITECTURE / The ASX server resides at the application layer of Sonus' three-tiered, IMS-compliant architecture—a comprehensive carrier-class infrastructure based on the same standards endorsed by wireless and wireline telecommunications organizations around the world. Sonus' architecture is a widely deployed solution based on IMS' distributed intelligence principles and communications protocols.

ABOUT SONUS NETWORKS / Network operators around the world count on Sonus Networks to bring them into the future. We've brought IP to the core since 1997, and today we're a global leader in IP-voice, with over half of the world's top 10 telecommunications providers as our customers.

To learn more about our fixedEdge solutions, contact your Sonus sales representative or visit us online at www.sonusnetworks.com.

With the ASX server, you can reach new customers, increase margins and reduce churn:

- > Primary line replacement for residential users
- > IP business trunks and IP Centrex for business users
- > Reduce capex and opex while enabling new services
- > Create a layered-services approach by extending IP from the core to the edge of the network
- > Offer innovative capabilities that enhance the user experience and increase productivity

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