# Sonic ESB™

DATASHEET

## THE WORLD'S FIRST ENTERPRISE SERVICE BUS

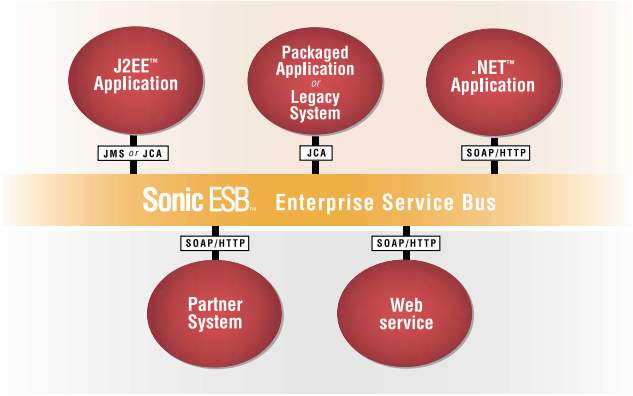
## KEY FEATURES

- Enterprise-class communications backbone
- Distributed service-oriented architecture
- XML transformation services
- Management framework
- Intelligent routing
- Support for Web services
- Flexible security infrastructure

## SUPPORTED STANDARDS

- WSDL, UDDI, SOAP, HTTP
- JMS, JCA
- XPath, XSLT, XQuery
- SSL, PKCS, JAAS
- JMX Management

### Overview




*The Sonic ESB is the world's first enterprise service bus, a fundamentally new and profoundly more powerful and efficient approach to application integration. Combining XML, enterprise-grade communication services, and a service-oriented architecture based on enhanced Web services standards, the Sonic ESB provides a cost-effective way to centrally configure, deploy, and manage services distributed across the extended enterprise. A clear evolution from traditional integration brokers and home-grown integration solutions, the Sonic ESB supports incremental deployment, enables companies to reuse resources from one integration project to the next, and is flexible enough to start at the project level and scale to virtually any size enterprise.*

**Integration Brokers: The Case Against**

In the past, when corporate infrastructures weren't as heterogeneous or extended as today, integration brokers were seen as a viable investment. Based on a hub-and-spoke model, integration brokers handled changes in load and configuration by increasing broker capacity or by adding homogeneous brokers in a centralized location. They employed proprietary integration mechanisms and messaging components, and were designed to support back-end integration, not Web-based services.

***In sum, integration brokers were inflexible, inefficient, and difficult to operate and maintain.***

The Sonic ESB, on the other hand, features a distributed services architecture, which treats all applications as services. This allows intelligence to be placed remotely and executed from anywhere along the bus. The ESB is inherently scalable with no single point of execution or failure. It's also easy and efficient to implement and maintain, since it's built on standards such as XML, Web services, and JMS. Through the use of XML, the Sonic ESB enables different applications to communicate in an inherently platform-independent fashion.

**So while integration brokers were the technology of yesterday, the Sonic ESB is the integration solution of today and tomorrow.**

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## SONIC ESB FEATURES AND BENEFITS

### *Enterprise-class backbone*

Sonic ESB's enterprise-class messaging backbone provides secure, reliable, standards-based communications among any number of services and application endpoints across the extended enterprise. Utilizing Sonic's own patent-pending Dynamic Routing Architecture (DRA) technology, the backbone enables Web services and distributed processes to scale to meet the demands of global-scale enterprise networks.

### *Distributed services architecture*

Sonic's service-oriented architecture (SOA) provides a coherent and manageable deployment framework for services distributed across multiple cooperating nodes. A key element of the ESB, this architecture allows services to be managed and scaled independently, enabling expansion of the integration network at any time to significantly reduce total costs.

***"A new form of enterprise service bus (ESB) infrastructure – combining MOM, Web services, transformation and routing intelligence – will be running in the majority of enterprises by 2005. These high-function, low-cost ESBs are well suited to be the backbone for service-oriented architectures and the enterprise nervous system."***

***Roy Schulte***
***Vice President***
***Gartner, Inc.***

### *XML transformation service*

Because of its flexibility and capabilities, XML has become a critical enabler of efficient and cost-effective application integration. The Sonic ESB's XML transformation service enables easy integration of data from multiple sources for distribution to diverse destinations. Transforms of XML documents between services on the ESB are performed using XSLT. This facilitates the alignment of data formats between endpoints without having to modify either the sending or receiving applications.

### *Management framework*

The Sonic ESB's management framework ensures the secure configuration, management, and monitoring of all services distributed throughout the enterprise – without requiring a third-party management solution. To support both centralized and federated security models, the ESB has a unique domain architecture that provides local autonomy while allowing messages to flow freely around the globe. The management framework employs the same messaging infrastructure used by application data flows, eliminating the need for a separate communications infrastructure just for management communications. In addition, the extensible GUI uses templates for configuring and managing large numbers of similar service definitions.

### *Mapping tool*

Sonic ESB features Sonic Stylus Studio, an award-winning XML development environment that includes powerful editor and debugger tools for XSLT and XQuery, and a WYSIWYG XML-to-HTML designer. Stylus Studio's XML-to-XML editor makes it possible to map one document to another with a series of simple drag-and-drop operations. As the graphical maps are being drawn, the XSLT that generates the result is built automatically – without the need for XSLT programming. This one-step approach to authoring XSLT style sheets, XML schemas, and related XML documents saves time and resources.

### *Intelligent routing*

The Sonic ESB uses rule expressions, document contents, and message attributes to automate business document routing between services. Routing information travels with messages to enable endpoints to dynamically route communications without relying on a centralized integration broker. This eliminates performance bottlenecks and eradicates the single point of failure so common with traditional hub-and-spoke integration brokers.

### *Support for Web services*

Anticipating a broad availability of Web services and built-to-integrate applications, the Sonic ESB allows Web service end-points to be seamlessly integrated into an ESB environment. Supported Web services-related standards and protocols include WSDL, SOAP, and UDDI.

### *Flexible security infrastructure*

The Sonic ESB provides comprehensive, pluggable authentication, authorization, and encryption capabilities across the bus. The combination of embedded RSA™ encryption and a broad range of cipher suites facilitates integration with maximum security and performance.

## THE BENEFITS OF A STANDARDS-BASED SOLUTION

As a standards-based solution, the Sonic ESB enables a high degree of application interoperability, and allows organizations to transfer skills and code-assets from one integration project to the next. Sonic's commitment to incorporating standards in its solutions is demonstrated by the company's leadership role in driving emerging industry standards for Web services, XML, Java, and other integration technologies. Specific benefits include:

### *Minimizing vendor lock-in*

Proprietary approaches, which "lock in" organizations to a single vendor's technologies, stifle innovation, inhibit flexibility, and ultimately prove more expensive. Sonic ESB's standards-based approach, however, provides application portability and a high degree of reusability on subsequent projects.

### *Achieving seamless interoperability*

Application interoperability is enhanced when applications are based on technology standards. In the example of Web services, where different applications exchange information with each other, standards enable heterogeneous systems to communicate without having to perform additional coding or install intermediary translation technologies.

### *Maximizing resource utilization*

Organizations that adopt a standards-based approach can leverage and protect existing infrastructure investments, as well as reuse internal development skills and resources. This helps to reduce costs and shorten development time, leading to increased ROI and competitive advantage.

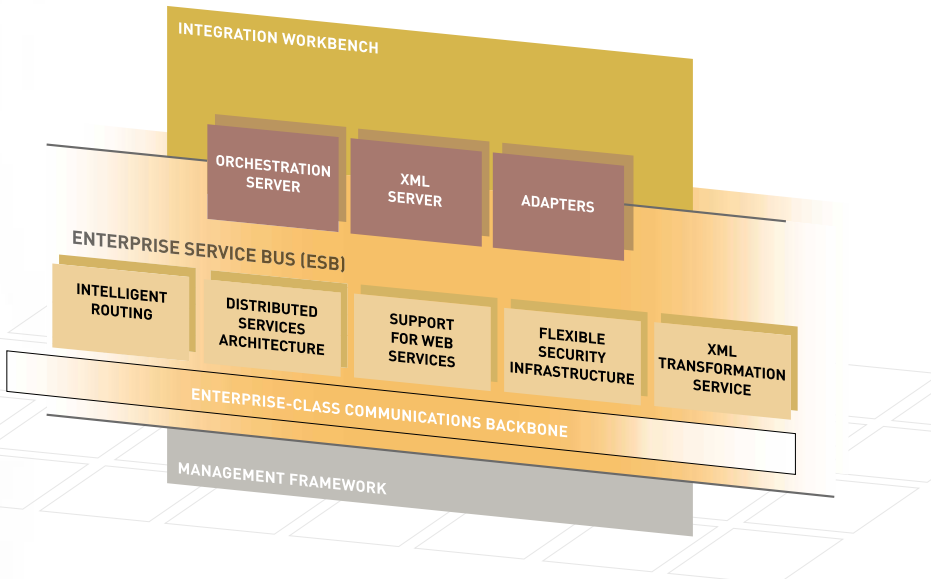
***"The ESB is an open standards-based technology concept that will revolutionize IT and enable flexible and scalable distributed computing for generations to come. The ESB is emerging as the backbone of the distributed framework within enterprise IT, because it allows not only the retention and deployment of existing business-critical applications, but also allows the user to introduce and remove newer applications as needed."***

***Sally Hudson***
***Research Manager – Software Infrastructure***
***IDC***

### *Ensuring full connectivity*

Sonic ESB's connectivity features and standards allow organizations to effectively and efficiently integrate applications, application servers, messaging systems, and even mainframes without requiring extensive application rewrites. Connection support exists for standards like Web services, J2EE-JCA, JMS, and platforms such as J2EE and .NET.

*The Sonic ESB forms the foundation of the Sonic Business Integration Suite – which also includes the* ***Sonic Orchestration Server™, Sonic XML Server™, Sonic Integration Workbench™,*** *and* ***Adapters for Sonic ESB™*** *– providing a resilient processing platform to seamlessly link business operations within and across the extended enterprise.*



CONNECT EVERYTHING. ACHIEVE ANYTHING.™

## SONIC: THE CASE FOR

Clearly, the distributed, standards-based, service-oriented architecture of the ESB represents a vast improvement for application integration – and the only truly viable solution for widely distributed enterprises looking for a powerful, efficient, and cost-effective integration solution. The only remaining question: where to get it?

Sonic's revolutionary ESB product has defined the market and set the standard for next-generation application integration across the extended enterprise. The Sonic ESB is backed by a tradition of excellence and innovation. Sonic's first product, the SonicMQ™ enterprise messaging server, was the first complete commercial implementation of JMS. It quickly became a popular component in J2EE application servers and serves as the foundation of numerous OEM platforms.

Sonic's customers helped define a radical new vision: that of a service bus composed of a service-oriented integration layer built atop the distributed standards-based messaging foundation. Incorporating a services repository, this concept would be able to more broadly connect IT assets across distributed environments. Sonic engineered an innovative management infrastructure, and Sonic ESB was born. As the creator of the world's first enterprise service bus, Sonic Software is the most knowledgeable, reliable, and lowest-risk choice.

### ABOUT SONIC SOFTWARE

Sonic Software provides the first comprehensive business integration suite built on an enterprise service bus (ESB). The Sonic product line delivers a distributed, standards-based, cost-effective, easily managed infrastructure that reliably integrates applications and orchestrates business processes across the extended enterprise.

Sonic is the world's fastest growing integration and middleware company and counts global leaders among over 500 customers in financial services, energy, telecommunications and manufacturing. Sonic is an independent operating company of Progress Software Corporation (NASDAQ: PRGS), a $300 million software industry leader. Headquartered in Bedford, Mass., Sonic Software can be reached on the Web at www.sonicsoftware.com, or by phone at +1-781-999-7000 or 1-866-GET-SONIC.

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### PACKAGING

| Packages | Packages |
|---|---|
| Sonic ESB Enterprise | Sonic ESB (single CPU license) for deployment |
| Sonic ESB Professional Developer | Sonic ESB (named user license) for development |

### SYSTEM REQUIREMENTS

| Platform | JVM Vendor & Version |
|---|---|
| Microsoft Windows NT 4.0 SP6 | Sun V1.3.1 |
| | Sun V1.4.1 |
| | IBM V1.3.0 |
| Microsoft Windows 2000 SP2 | Sun V1.3.1 |
| | Sun V1.4.1 |
| | IBM V1.3.0 |
| HP-UX V11.0 | HPUX V1.4.0 |
| IBM AIX 5L V5.1 | IBM V1.4.0 |
| Red Hat Linux V7.2 | Sun V1.4.1 |
| Sun Solaris V2.8 | Sun V1.4.1 |

Check Sonic's website at www.sonicsoftware.com for the latest information on supported platforms.

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