

# PROGRESS SONIC ESB

## SUPPORTING FASTER RESPONSE TO RAPID BUSINESS CHANGE

Progress® Sonic® ESB connects people, processes, and systems with the right information at the right time with high-performance and availability. It integrates any IT resource and quickly scales across multi-site, distributed environments.

Sonic ESB advances the state-of-the-art in service-oriented architecture (SOA) and enterprise integration with the power and flexibility of open services and integration standards. Moreover, it is the industry's only true 100% uptime messaging infrastructure that provides fully integrated operational visibility and semantic data transformation support. Simply put, it is the industry's most reliable and scalable enterprise service bus available today.

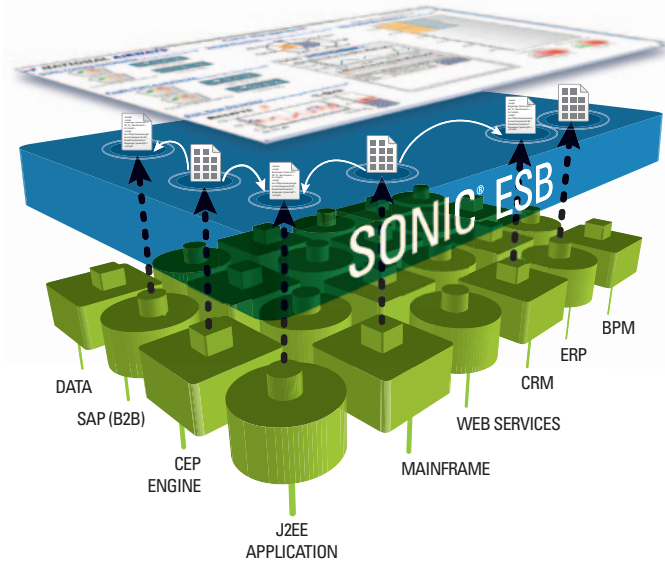
## ADVANCING THE STATE-OF-THE-ART IN ENTERPRISE INTEGRATION

### **Open Services and Integration Support**

Sonic leverages open development and integration standards including JAX\*RS, JAX\*WS, Spring, AXIS, JSON, and POJO to provide a simplified development environment that requires minimal proprietary knowledge, leverages a

### **HIGHLIGHTS**

- > *Continuously available business systems—100% system uptime, even when upgrading and applying hot fixes*
- > *Best-in-class data transformation and common model data management with Progress® DataXtend® Semantic Integrator*
- > *Distributed operations management for fast rollouts and hot fixes even to 1000s of sites*
- > *Eclipse-based, visual enterprise tooling for development, QA and deployment productivity*
- > *Open programming models for web and RESTful services, increasing developer productivity and access to skilled resources*
- > *Integrated SOA management & security with Progress® Actional®*
- > *Critical business asset integration with Progress® Shadow® mainframe solution*



larger pool of capable developers, and reduces the requirement for training. Services, built as annotated POJOs, are highly portable and reduce vendor lock-in. Processes can be exposed as traditional and RESTful web services that provide integration with virtually any standards-based application, and adapters are available to bridge with any non-standard or legacy system.

### **Connectivity: On-ramps to the ESB**

Sonic simplifies the connection of new applications, web services, and hundreds of other technologies (batch files, JEE, .NET, Progress® OpenEdge® application servers, mainframe applications, relational data sources, legacy middleware products and packaged applications). Advanced Web services support (WS-Reliable Messaging, WS-Security, WS-Policy, and WS-Addressing) ensures interoperability with secure, robust, asynchronous communications.

## **INTEGRATION THAT SUPPORTS DISTRIBUTED OPERATIONS MANAGEMENT**

Sonic is ideal for multi-site, high-transaction environments. Its patented Dynamic Routing Architecture® (DRA) delivers unmatched, software-based fault tolerance and scalability. It enables organizations to install, upgrade, and manage highly distributed environments from a central location—reducing deployment time and costs for on-site resources. At the

### **FASTER, MORE FLEXIBLE INTEGRATION**

*Sonic ESB easily integrates services representing diverse technologies without modifying underlying applications or introducing inflexible, hard-coded dependencies. Its configurable control of service interactions allows modification of data and process flow without re-coding or shutdown of running services.*

### **ECLIPSE-BASED SOA DEVELOPMENT ENVIRONMENT**

*The Eclipse-based Progress® Sonic® Workbench makes it easy to develop, test, debug, and deploy any combination of intelligent routing and integration services—whether deployed on a single workstation or across a distributed environment.*

same time, it preserves the autonomy of connected systems—sensitive information is securely shared and auditable.

### **Global Deployment and Management**

With Sonic, organizations can configure, deploy, monitor, upgrade, apply hot fixes to 1000s of sites from a centralized console.

Sonic distributed architecture combines service orchestration, independently scalable integration services (such as application adapters), and intelligent routing. The result simplifies the connection of endpoints in a distributed environment, scales to meet high throughput, and provides freedom to change process, services, intelligent routing, and schema without disrupting running systems. This configuration-driven approach makes it easy to change logical flows among services and to scale-up the underlying infrastructure to accommodate increased communication traffic. Together these capabilities provide a foundation for highly responsive 24x7 runtime operations.

## **INTEGRATION THAT IS AGILE AND RESPONSIVE TO BUSINESS NEEDS**

Real-time, responsive operations rely on fast, reliable, and continuous delivery of business events. Whether a one-to-many or a many-to-many scenario, the challenge of event distribution grows with the number of participants. Sonic distributed architecture responds to challenges of scalability and distribution. New systems—even those in the different security domains of connected departments or organizations—can subscribe to events without manual overhead or disruption to existing services. This allows additional systems to be quickly integrated in a global environment without performance degradation.

### **Event-driven Architecture**

Through the Sonic event-driven architecture, services asynchronously place messages on and draw messages off the enterprise messaging communications backbone. Integration services and communication brokers scale independently, allowing efficient allocation of resources for computing and communication-intensive processing—when and where they are needed.

### **CENTRALIZED INSTALL & MANAGEMENT**

*Sonic ESB allows integration services, service orchestration, and intelligent routes to be defined and deployed to any location, from any location. As a result, organizations can work more reliably and flexibly across Internet, satellite, or other WAN links and manage service orchestration that spans network segments, business units, and even partner organizations.*

### **LEVERAGING DISTRIBUTED ARCHITECTURE**

*Sonic ESB reduces cycle times, gathers and disseminates information, and reliably responds to business conditions as they occur.*

## **Enterprise Messaging Communications Backbone**

Built-in JMS and advanced web services communications provide reliable, secure throughput and low-latency performance as well as configurable service and rich messaging semantics. Communication brokers dynamically deploy and cluster to scale throughput. The Sonic Continuous Availability Architecture (CAA) ensures that communications broker failover is transparent to services and that in-flight transactions are not rolled back. Furthermore, CAA provides these benefits without costly RAID, OS clustering software, or third-party high-availability (HA) frameworks.

## **Remote Information Delivery**

When remote transactions fail because master data is out-of-date, deals are lost and manual correction is time-consuming and expensive. Sonic solves this problem through continuous delivery of master data updates. And its communication backbone provides fast and reliable delivery of information as easily to a thousand remote sites as it does one. Additional systems—even those running in different security domains—can be added without disruption.

## **Intelligent Routing**

Sonic intelligent routing provides highly scalable, end-to-end control of event flow across distributed environments. Routing-slip state (the “ESB itinerary”) travels with business data as it flows across networks for distributed processing across multiple servers, cluster, and security domains. Free of hub-and-spoke performance bottlenecks and a single point of failure, intelligent routing scales with the underlying communications infrastructure and delivers highly reliable and continuously available processing of large numbers of concurrent active routes. Through Sonic Workbench, even the most complex ESB intelligent routes may be deployed and debugged from anywhere on the network.

## **Management Spans Firewall, Security Domains**

Sonic management spans security domains and firewalls to deliver seamless integration across organizational boundaries and to remote sites. Underlying these capabilities is the patented Dynamic Routing Architecture® (DRA), which automatically routes information across multiple security domains, transparently spanning clusters and security domains to support a unified namespace and federated environment. This allows extension of Sonic

## **STAGED, DISTRIBUTED DEPLOYMENT**

*Graphical deployment tools simplify the distributed promotion of ESB metadata from development to test to production environments, ensuring the referential integrity and consistency of the deployed configurations. Impact and dependency analyses assure that a new deployment does not affect existing operations.*

## **SONIC DEPLOYMENT MANAGER**

*Sonic Deployment Manager automates the installation of Sonic software and tailors configurations to suit each stage of the project lifecycle—Sonic Deployment Manager reducing the time and cost of project development and delivery.*

ESB to incorporate and connect resources in additional security domains without any reconfiguration or disruption of running systems.

## INTEGRATION THAT SOLVES DATA INCONSISTENCIES WITH SEMANTIC DATA TRANSFORMATION

Sonic development and runtime integration with Progress® DataXtend® Semantic Integrator (SI) dramatically simplifies the problem of common data model lifecycle management, transformation, and validation. DataXtend SI leverages Eclipse-based tooling and the ability to deploy semantic services in ESB containers. Just as Sonic eliminates the inefficiency of point-to-point integration with its robust, event-driven architecture that can scale and extend across the enterprise, DataXtend SI solves the problem of point-to-point data transformations, making it easier to integrate data and evolve a SOA with diverse, connected systems.

## INTEGRATION THAT INCLUDES LEGACY AND MAINFRAME SYSTEMS

Supporting faster response to business change makes legacy and mainframe integration a key Sonic capability. Sonic provides a non-disruptive leave-and-layer approach that avoids the risk of “big-bang” migrations. It enables legacy systems to continue to run as they are and to be easily integrated with event-driven systems without re-coding or replacement. Development and runtime integration with Progress® Shadow® also simplifies the challenge of integrating mainframe data, services and events with other high value business applications. Together, Sonic and Shadow enable organizations that rely on mainframe technology to leverage the interoperability of SOA with real-time data access and events to improve their operational responsiveness.

### **NEXT-GENERATION INTEGRATION**

*The simultaneous release of Sonic and DataXtend v8.5 combines the agility and interoperability of SOA with precise semantic data transformation—facilitating improved collaboration between development teams.*

*Highlights include:*

- > *Improved interoperability and SOA integration*
- > *Increased developer productivity*
- > *Improved visibility and impact analysis*
- > *Streamlined deployment and management*

## WHY SONIC ESB?

As ever-evolving business requirements demand equally fast IT responsiveness, the underlying integration architecture must evolve. Progress® Sonic® ESB is today's state-of-the-art underlying architecture for supporting rapid response to business change. Sonic provides a strategic advantage for any business or organization that employs its ability to combine integration agility with information transparency and operational insight to improve responsiveness and keep pace with the change of business.

**For more information visit our website** [www.progress.com/sonic](http://www.progress.com/sonic).

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## PROGRESS SOFTWARE

Progress Software Corporation (NASDAQ: PRGS) is a global software company that enables enterprises to be operationally responsive to changing conditions and customer interactions as they occur. Our goal is to enable our customers to capitalize on new opportunities, drive greater efficiencies, and reduce risk. Progress offers a comprehensive portfolio of best-in-class infrastructure software spanning event-driven visibility and real-time response, open integration, data access and integration, and application development and management—all supporting on-premises and SaaS/cloud deployments. Progress maximizes the benefits of operational responsiveness while minimizing IT complexity and total cost of ownership.

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