

SIMPLIFYING PROGRESS® OPENEDGE® INTEGRATION

FASTER, MORE FLEXIBLE OPENEDGE INTEGRATION WITH SONIC ESB

For many organizations today, Progress® OpenEdge® is an IT cornerstone. OpenEdge development tools and methodology eliminate many coding tasks associated with managing data access and building effective services. OpenEdge Application Server supports an open, component-based model for partitioning applications and enables the easy distribution and reuse of business logic—saving valuable time and resources. And OpenEdge Enterprise RDBMS is a flexible, scalable, and highly available database solution that supports thousands of users and transactions with minimal administration and maintenance.

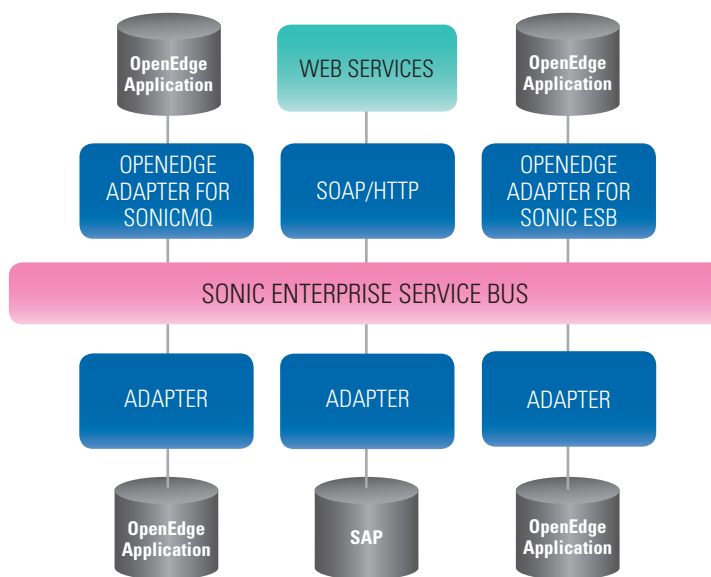
In concert, the OpenEdge product suite provides architects and developers with a platform for building and deploying highly responsive business applications within service-oriented architectures (SOA). As OpenEdge organizations move down the SOA path, they discover that loosely coupled service development and deployment are only a piece of the puzzle. To enable the benefits of SOA and accelerate time-to-value, SOA requires a mediation layer that simplifies the integration of OpenEdge applications—without disruption—across multi-application, multi-site, distributed environments.

HIGHLIGHTS

- > *Continuously available, 100% system uptime, even when upgrading and applying hot fixes*
- > *Centralized management and provisioning, to scale from Departmental to Enterprise SOA*
- > *Event-driven architecture that delivers performance and reliability to your critical systems*
- > *Open programming models for Web and RESTful services, increasing developer productivity and access to skilled resources*
- > *Integrated SOA management and security with Progress® Actional®*
- > *Pre-built adapters to connect your important business applications like SAP, or existing middleware like IBM WebSphere*

Simply put, an enterprise service bus (ESB) is an integration layer that fills interoperability gaps left open in SOA. An ESB is viewed as a core component to an organization's SOA strategy, but only a true event-driven ESB can deliver on the performance and reliability that an enterprise SOA demands. An ESB permits services (consumers and providers) to interact in a loosely coupled manner, more so than if they were simply connected point-to-point using the most contemporary loosely coupled standard protocols, like Web services or Java Message Service, alone. This enables services and the processes that use them to change at a faster rate and to a much greater degree without affecting other services or processes around them. This is the foundation for agility.

Progress® Sonic® ESB streamlines use of SOA through flexible open services and integration standards that simplify the integration of OpenEdge applications across multi-application, multi-site, distributed environments. It creates an event-driven service-oriented architecture that is responsive to ever-changing business requirements. Engineered for flexible, incremental integration, the Sonic ESB standards-based, distributed services architecture facilitates the deployment of integration projects that can easily scale without disruptive recoding. It not only provides connectivity and guaranteed message delivery across applications; it delivers the required data transformation, network security, and high performance necessary to meet the requirements of extended OpenEdge enterprises.



UNMATCHED PERFORMANCE AND RELIABILITY

Progress Sonic ESB was engineered with reliability and flexibility in mind. Featuring a patented Continuously Available Architecture (CAA) Sonic ESB is a bullet-proof foundation flexible enough to serve mid-size IT organizations or to support even the most mission-critical, large-scale deployments. Providing the many degrees of freedom needed to mix and match a broad range of integration infrastructures and techniques, its distributed services architecture enables the reuse of resources from one integration project to the next—flexibly scaling from the project level to virtually any sized customer environment. The key features and benefits of Sonic ESB, including its distributed services architecture, high-performance communications backbone, and intermediary services and adapters, are highlighted as follows:

DISTRIBUTED SERVICES ARCHITECTURE

With the Sonic ESB distributed services architecture, Progress OpenEdge customers now have a centrally managed integration platform with the flexibility to scale as their business grows.

- > ***Distributed, dynamic deployment and management***—Supports configuration, deployment, and monitoring of remote services from a centralized administrative dashboard so that discrete services can be independently scaled, reconfigured and redeployed without disrupting other operations.
- > ***Configuration-driven implementation***—Reduces the time and costs associated with modifying the IT infrastructure to align with business changes by providing parametric control to establish relationships among applications and integration services in the infrastructure.
- > ***Support for event-driven services***—By minimizing application interdependencies, provides flexibility in configuring relationships among participating services and creates opportunities for high-performance parallel processing.

- > ***Choice of multiple, configurable interaction models***—Gives enterprise application developers the freedom to mix and match the appropriate application interaction model—including queuing, pub/sub, intelligent routing or service-aware process management—without modifying applications and services on the ESB.
- > ***Support for multiple transports***—Delivers the flexibility to choose and change communication transport mechanisms as needed in various segments of the enterprise, eliminating the need for the applications, intermediary services, business processes, and service interactions to be aware of the underlying transport.
- > ***Location transparency***— Enables services to interact on the ESB regardless of their physical location through a logical service end-point naming scheme and seamless routing across multiple transports and physical network boundaries, including security boundaries and firewalls.

HIGH-PERFORMANCE COMMUNICATIONS BACKBONE

Sonic ESB underpins your mission-critical Progress OpenEdge applications with a high-performance communications backbone that delivers unsurpassed transactional integrity:

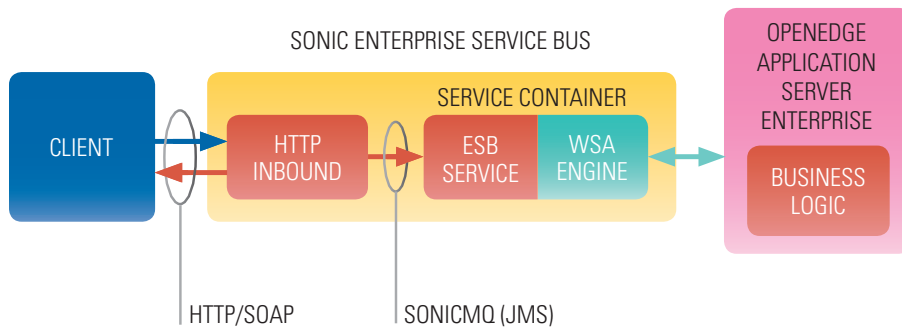
- > ***Guaranteed message delivery***—Reliably delivers data to the specified destinations according to the configured quality of service (e.g., once and only-once delivery) and eliminates the need for applications to manage re-transmission of data if receiving services are unavailable.
- > ***Continuous Availability Architecture (CAA)***—Provides high-performance, software-based service failover capability without need for specialized and expensive hardware and operating systems.
- > ***Clustering***—Scales integration infrastructure throughput capacity by load balancing over several communication servers in a cluster.
- > ***Dynamic Routing Architecture® (DRA)***—Provides enhanced security and scalability in large-scale deployments through sophisticated data routing controls.

- > **Web services**—Reliably and securely integrates Web services-enabled applications, with support for WSDL, SOAP, and UDDI.
- > **Highly secure infrastructure**—Provides comprehensive, pluggable authentication, authorization, and encryption capabilities across the ESB, with federated security across multiple domains and use of any number of existing enterprise security policies.

ESB INTERMEDIARY SERVICES AND ADAPTERS

Connectivity to Progress OpenEdge applications expands exponentially with Progress Sonic ESB through its comprehensive array of adapters, interfaces and XML support, all with centralized auditing and logging for rapid diagnostics:

- > **Distributed intelligent routing**—Automatically routes documents among distributed services on the ESB using rule expressions, document contents and message attributes, freeing up performance bottleneck and eliminating the single point of failure of centralized integration technologies.
- > **XML transformation service**—Aligns data formats without change of the sending or receiving applications using XLST to transform XML documents.
- > **Centralized auditing and logging**—Supports monitoring and diagnosis of complex distributed systems through central logging and auditing of data messages, errors, process status, etc.
- > **Adapters**—Reduce time and cost to service-enable and integrate existing business assets by leveraging pre-built packaged adapters for applications such as SAP or Oracle Financials, B2B adapters for applications such as RosettaNet, adapters for mainframe, and even for legacy middleware technologies such as TIBCO Rendezvous.



“With Sonic, we can help key command and control personnel receive and make sense of a wide variety of critical information quickly. The faster that they can make those decisions, the better they’re going to be, and, hopefully, they can save lives and get the job done more quickly.”

*Jon Johnson
Chief Engineer
Northrop Grumman Mission*

OPENEDGE ADAPTER FOR SONIC ESB

With OpenEdge 10, Progress fully supports Web services and enhanced Sonic integration capabilities. Using the OpenClient Toolkit, an OpenEdge Application Server-based application can be transformed into a Web service, accessible by any application that is able to call Web services. Moreover, it can connect directly into the Sonic ESB as an endpoint to attain asynchronicity, security, load balancing and additional functional benefits provided by the ESB.

The OpenEdge Adapter for Sonic ESB, included with the OpenEdge Application Server Enterprise Edition, provides a tighter level of integration with the Sonic ESB when connecting applications over a local area network. The adapter allows the OpenEdge application to be deployed as a service directly on the ESB, providing significantly enhanced performance and the ability to configure and manage the OpenEdge application “service” from a single, centralized management console.

THE BENEFITS OF A STANDARDS-BASED SOLUTION

A standards-based solution, Sonic ESB enables a high degree of application interoperability and the reuse and transfer of skills and code assets from one integration project to the next. The Sonic ESB commitment to incorporating standards in its solutions is demonstrated by its focus on

supporting emerging industry standards for Web services, XML, Java, and other integration technologies. Specific Sonic ESB benefits include:

- > **Minimizing vendor lock-in**—The standards-based approach of Sonic ESB provides application portability and a high degree of reusability on subsequent integration projects. It bypasses proprietary approaches that “lock in” a single vendor’s technologies, stifle innovation, inhibit flexibility, and, ultimately, prove more expensive.
- > **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.
- > **Optimized resource utilization**—A standards-based approach leverages and protects existing infrastructure investments and supports the reuse of internal development skills and resources—lowering costs and shortening development cycles, leading to increased ROI and competitive advantage.
- > **Full connectivity**—Sonic ESB connectivity enables the effective and efficient integration of applications, application servers, messaging systems, and even mainframes with no changes required to existing infrastructure.

Sonic ESB connects people, processes, and systems with the right information at the right time, any time—and with high performance and availability. In today’s business environment, the value of a standards-based, service-oriented solution has never been greater.

PROGRESS® OPENEDGE® PLATFORM SUPPORT

- > Microsoft XP Pro SP3, 2003 Server SP2, 2008 Server R2, Windows 7
- > Oracle® Solaris™ 10
- > RHEL 5U2/U5, 6
- > Oracle Linux 5.5
- > CentOS 5.5
- > SuSE 10, 11
- > AIX 6.1, 7
- > HP-UX 11i V3

VIRTUALIZATION:

- > Microsoft Hyper-V
- > Oracle Solaris xVM Containers/
Zones
- > VMware ESX/ESXI 3.5+
- > RHEL Xen, KVM
- > HP VSE
- > IBM PowerVM, LPARs

OPENEDGE AND SONIC: THE FOUNDATION FOR OPERATIONAL RESPONSIVENESS

Sonic ESB connects people, processes, and systems with the right information at the right time, any time—and with high performance and availability. In today's business environment, the value of a standards-based, service-oriented solution has never been greater. The OpenEdge platform with Sonic ESB simplifies integration and enables OpenEdge organizations to:

- > Fill the interoperability gaps left open in SOA
- > Build and deploy highly responsive business applications within service-oriented architectures
- > Seamlessly connect OpenEdge applications across multi-application, multi-site, distributed environments
- > Reuse resources from one integration project to the next
- > Address your customers integration needs
- > Achieve continuous high performance and scalability, especially during peak periods
- > Realize low cost of ownership, helping to reduce operational and IT costs

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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