



Progress  
**OpenEdge**

## Sonic ESB<sup>®</sup>

Delivering an Integration Framework for  
the OpenEdge Enterprise

In today's environment of business mergers and tight partner alliances, Sonic ESB can link OpenEdge<sup>®</sup> applications with Web services, non-Progress databases, multi-vendor application suites, CRM systems and legacy mainframes.

### HIGHLIGHTS

Connects, mediates and controls services wherever deployed

Fast, dependable and secure communications

Transactional failover of service interactions

Enterprise-class Web services

Operates across domains, physical networks and corporate boundaries

### SUPPORTED STANDARDS

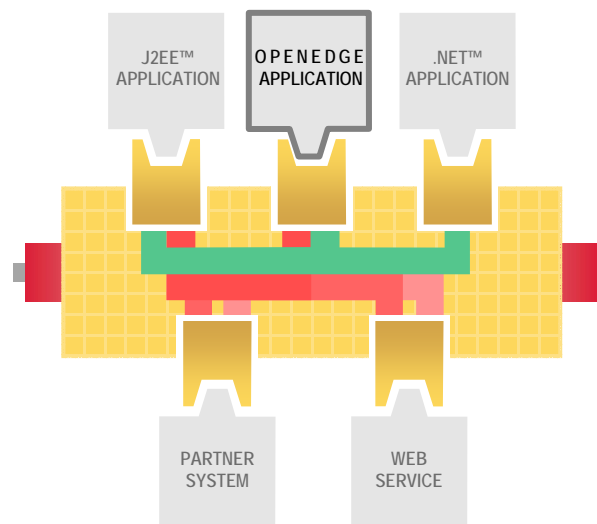
WSDL, SOAP, HTTP,  
WS-Addressing,  
WS-ReliableMessaging,  
WS-Security, WS-Policy

JMS, JCA, JMX Management

XML, XML schema, XSLT, XPath,  
and XQuery

Today's organizations face tremendous integration challenges that are best addressed by a service-oriented architecture (SOA) approach to dramatically improve the alignment and flexibility of the computing infrastructure with the needs of the business. An effective SOA requires an infrastructure that can accommodate integration across all IT resources, regardless of where they are deployed. Progress<sup>®</sup> Sonic ESB is an enterprise service bus that simplifies the integration and flexible reuse of business components using a standards-based SOA. While the OpenEdge business platform provides the leading development environment for building the best business applications, Sonic ESB allows the seamless integration of OpenEdge applications with multi-vendor applications and databases across the enterprise.

Free of the inflexible and costly customization required by other middleware technologies, Sonic ESB allows organizations to dynamically configure the reliable connection, mediation, and control of services and their interactions. It spans clusters and security domains to form a federated environment which can be managed from any point. In lieu of hard coded point-to-point connections, Sonic ESB makes it easy to integrate OpenEdge applications with legacy and third-party applications without disruptive recoding.



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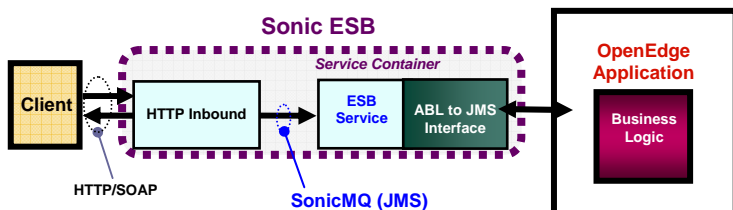
## ENTERPRISE INTEGRATION WITH OPENEDGE AND SONIC ESB

The combination of the OpenEdge business platform with Sonic minimizes the risks and costs associated with integration projects by providing distributed connectivity. Successful integration programs contribute to bottom-line performance by accelerating business processing and improving organizational responsiveness. OpenEdge and Sonic technologies provide a complete, end-to-end business integration strategy for solving virtually all integration problems—from connecting departmental applications to integrating the worldwide systems and processes of the enterprise and its business partners.

Sonic ESB has been proven in large-scale, secure and continuously available deployments. It not only provides connectivity and guaranteed message delivery across applications; it also supports the data transformation, network security and performance needed to integrate OpenEdge applications with resources in the department, throughout the enterprise, and across the globe.

### OpenEdge and Sonic ESB

OpenEdge fully supports Web services and enhanced Sonic-based integration capabilities. OpenEdge applications can be deployed as distributed services using Sonic ESB, which can be configured and managed by the Sonic Management console for ease of administration. Any application connected to the bus can then access these OpenEdge applications as reusable services to provide specialized solutions. Using standards-based integration, OpenEdge applications can easily interoperate with Java and .NET applications. Sonic ESB then allows for asynchronous operation, security and load balancing, plus the additional benefits of data transformation and content-based routing.



*OpenEdge applications can 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 Sonic management console.*

## Service Mediation

### – Transport, protocol and interaction model mediation

Easily integrate services representing diverse technologies, without modifying underlying applications or introducing hard-coded dependencies. Mediated interaction models include synchronous and asynchronous invocation, publish and subscribe, intelligent routing & stateful orchestration.

### – Intelligent routing

Configurable subject, content, and itinerary-based routing of messages to services. Provides highly scalable service interaction without performance bottlenecks or single point of failure.

### – Distributed process

Configurable flow control of service invocations across a distributed SOA. Process state travels with business data. Provides end-to-end business process visibility and eliminates the performance bottleneck of hub-and-spoke architectures.

### – Global service namespace

Logical service naming scheme provides location transparency of deployed services: physical deployment can change without disrupting logical service relationships. Leverages Dynamic Routing Architecture® (DRA) to route data across domains, physical networks and corporate boundaries without introducing significant management overhead. Supports creation of wide-area SOA by allowing data and process flows to span organizations.

### – XML message transformation

Rapidly reconcile incompatible data formats used by interoperating services. Merge data from various sources, and flexibly extend services’ functionality without disturbing running services.

### – Event-driven service model

Event-driven architecture decouples service interactions, minimizing dependencies among integrated services. Simplifies configuration of new service relationships, and supports high-throughput, distributed processing of event streams.

## Robust, Scalable, Secure Communications

### – **Guaranteed message delivery**

Reliably delivers data from OpenEdge applications to the specified destinations and back according to configured quality of service (e.g. once-and-only-once delivery) and eliminates the need to manage retransmission of data if receiving services are unavailable.

### – **Continuous Availability Architecture™ (CAA)**

Provides high availability and transactional fault tolerance capabilities that are completely transparent to services; in-process transactions continue without recovery process delay or roll-back. Does not require third-party RAID, OS clustering software or high-availability frameworks in the messaging layer. Fast-Forward mode eliminates reliable-messaging bottlenecks created by disk writes, offering more than an order of magnitude greater throughput than any other reliable messaging system.

### – **High performance**

Industry-leading performance, including high-volume / high-availability scenarios (durable, persistent) and high QoS scenarios (durable, persistent, transacted). Provides fast service response at a lower cost of hardware.

### – **Clustering**

Scales service throughput and ensures constant response time by load balancing over clustered servers. Allows deployments to scale to support large numbers of messages, users and applications.

### – **Dynamic Routing Architecture® (DRA)**

Supports global service namespace across large, distributed deployments. Routes data and process flows across clusters and sites without manual gateway reconfiguration.

### – **Pluggable security infrastructure**

Provides comprehensive, pluggable authentication, authorization and encryption capabilities across the ESB, with flexibility to use existing enterprise security policies. Encryption support from RSA built-in.

## A Broad Set of On-Ramps to the ESB

Sonic ESB delivers robust service end point connectivity so that applications can easily get onto the bus.

### – **Web services**

Provides advanced endpoint connectivity for Web services including OpenEdge Web services. Reliable, scalable and secure integration of Web service-enabled applications.

### – **J2EE and .NET application connectivity**

Exposes J2EE and .NET business logic as first-class services on the ESB. Simplifies application server connectivity to the ESB.

### – **Database Service (sold separately)**

Simplifies access and reuse of relational data sources in a service-oriented architecture.

### – **Enterprise messaging clients**

C/C++, Java, COM clients for Sonic ESB. Native language and platform client for most direct and highest performance connectivity.

## Management and Administration

### – **Centralized configuration and monitoring**

Built-in JMX-based framework for managing ESB infrastructure and services. Supports management of a large deployment from a single console.

### – **Configuration-driven service interaction**

Configurable control of service interactions allows modification of data and process flow without re-coding or shutdown of running services. Provides flexibility to adapt SOA to changing business requirements.

### – **Distributed, dynamic deployment**

Support distributed deployment of services and their configuration. Provides ability to independently scale, reconfigure and redeploy individual services without disrupting other operations.

### – **Staged deployment**

Supports deployment and migration of ESB services and processes from development through test and deployment. Performs impact and dependency analysis on changes before migration. Solves the problem of service and process upgrade management for large-scale SOA deployments.

### – **Centralized auditing and logging**

Ability to monitor and diagnose behaviors of complex distributed systems through central logging and auditing of services, faults, process status, etc. Supports log4j plug-in architecture.

## OPENEDGE AND SONIC ESB: THE CHOICE FOR SOA

Integrating applications across the enterprise has never been more critical, as companies struggle to stay ahead of the competition. Progress Software understands the integration challenges faced by the enterprise, and the OpenEdge platform with Sonic ESB helps organizations:

- Seamlessly connect heterogeneous applications and systems across highly distributed environments.
- Deploy incrementally, one integration project at a time, eliminating the need for major up-front investments.
- Achieve continuous high performance and scalability, especially during peak periods.
- Realize low cost of ownership, helping to reduce operational and IT costs.

Through technology innovations, OpenEdge and Sonic Software's SOA infrastructure and enterprise messaging products have helped numerous clients rapidly and flexibly integrate services and applications within the departmental landscape and across the enterprise.

### The Foundation of the Sonic SOA Suite

You can further enhance OpenEdge integrations with other members of the Sonic ESB product family. Additional capabilities are made available in Sonic Workbench™, Sonic Orchestration Server™, Sonic XML Server™, Sonic and Database Service™.

For additional information on Sonic ESB and OpenEdge platform support, please contact your local Progress Software sales representative or visit [www.progress.com](http://www.progress.com).

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