

# WHAT'S NEW IN PROGRESS<sup>®</sup> SONIC<sup>®</sup> ESB & DATAXTEND<sup>®</sup> 8.5

## INCREASED CROSS-PRODUCT INTEGRATION AND DEVELOPER COLLABORATION

With the concurrent releases of Sonic ESB 8.5 and DataXtend SI 8.5, Progress Software is taking cross-product functionality to a higher level to deliver a more comprehensive and holistic integration solution.

Working in concert, Sonic ESB and DataXtend SI 8.5 delivers an integration infrastructure that combines the agility and foundational interoperability of bulletproof service delivery with precise semantic data transformation and governance. As a result, you evolve your IT organization to support and empower your business with new capabilities while ensuring that you have the controls to maintain cross-system integrity.

With the 8.5 releases, Progress Software provides a holistic approach to integration with rich cross-product integration facilitating improved collaboration between development teams, simplified usability and increased architectural flexibility. Significant enhancements have been made in both DataXtend SI and

### **CROSS-PRODUCT INTEGRATION**

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

Sonic ESB products to more naturally support the use of data services within the Sonic ESB framework.

## INTEGRATED DEVELOPMENT ENVIRONMENT

Together, Sonic ESB and DataXtend SI now provide a tightly integrated development environment (IDE) that ensures real-time precise semantic data transformation and integration while reducing complexity. The IDE now allows developers to package DataXtend SI enterprise data services as native Sonic ESB services and take full advantage of the runtime performance, scalability, deployment and manageability found in Sonic ESB. At the same time, Sonic ESB now has access to DataXtend SI common information models while developers enjoy GUI-driven configuration of Sonic ESB endpoints and DataXtend SI data sources.

DataXtend SI offers a common model architecture that provides a loosely coupled approach to data integration. It facilitates reuse and allows you to change services, data models, or rules without affecting other integrated systems. In addition, the DataXtend SI Workbench lets you implement complex transformations and rules without writing or re-writing code. Meanwhile, change management tools make it easier for you to manage alterations to data models, transformations, and rules over the lifecycle of integration while providing the ability to identify and track the impact of any changes.

Sonic ESB provides a service-oriented, message-driven architecture that allows you to integrate heterogeneous systems in a highly scalable and distributed manner. The Sonic Continuous Availability Architecture (CAA) provides zero downtime while centralized management tools allow you to easily manage deployments across a distributed domain. Making use of these features enables a user to upgrade or patch distributed components from a central location with zero system downtime.

The 8.5 releases introduce a new approach to DataXtend SI and Sonic ESB integration. In previous releases, Sonic ESB contained a built-in DataXtend SI service instance whose functionality was configured by .esbdx control files generated for data services in the DataXtend SI Workbench. With the 8.5 releases, there is a new DataXtend SI service type, and you

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package standard Sonic ESB Archive (XAR) files containing data services for deployment in Sonic ESB. With this new approach, each DataXtend SI data service can be an individual Sonic ESB service.

The ability to work with DataXtend SI and Sonic ESB in the same studio workbench makes developing and integrating services a snap and allows for faster development. And the ability to use and deploy DataXtend SI data services in Sonic ESB the same way you work with ESB services makes collaboration easier for large development teams.

Below are two scenarios for developing DataXtend SI data services and the Sonic ESB processes that host them:

- > In one scenario, a team of developers works with DataXtend SI and Sonic ESB in the same workbench. This scenario is typical for a small development team.
- > In the other scenario, one team develops DataXtend SI data services in the SI Workbench, and another team develops Sonic ESB processes in the Sonic Workbench. This scenario is typical for a large development team.

### DataXtend SI Developer Benefits

The DataXtend SI developer creates data services to be deployed in Sonic ESB.

As a DataXtend SI developer, you implement and test data services in the SI Workbench. After testing, you prepare data services for deployment in Sonic ESB, configuring Sonic ESB data sources if required and packaging data services into deployable Sonic ESB XAR files. A XAR file is an archive that contains all of the JAR files and other information required to deploy data services in Sonic ESB. You then give the deployable archive to the Sonic ESB development team. If that team requires changes to any data services, you implement and test the changes and create a new XAR file.

### Sonic ESB Developer Benefits

The Sonic ESB developer creates Sonic ESB process itineraries in the Sonic Workbench.

As a Sonic ESB developer, you provide schemas for Sonic ESB data sources to DataXtend SI developers if data services are invoking Sonic ESB services. To prepare Sonic Workbench for deploying data services, you add the DataXtend SI service type to the Sonic domain, add XAR files containing data services to the Sonic domain, add data services as steps in process itineraries, deploy data services in Sonic ESB containers, and test the itineraries. You communicate the required changes to data services to the DataXtend SI development team and then redeploy the data services into the Sonic ESB domain.

### Sonic ESB and DataXtend SI Combined Benefits

If you work in a small development group, you might act as both a DataXtend SI developer and a Sonic ESB developer. In this case, you install the DataXtend SI plug-ins into the Sonic Workbench and work with DataXtend SI projects and Sonic ESB development projects in the same workspace. In this development scenario, it is easier to share resources between DataXtend SI projects and Sonic ESB development projects.

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## RICH RUNTIME INTEGRATION

The enhanced packaging usability feature from DataXtend SI enables you to package the required artifacts as a XAR file. You can also generate a package with multiple services in a single archive. The package is then uploaded to the Sonic Directory Services to make the exposed DataXtend SI services available in Sonic ESB. Sonic ESB 8.5 provides an improved “deploy” folder for a project in Workbench to manage externally generated packages. This enables you to manage integration with other products, such as DataXtend SI, in an easy and more efficient manner.

DataXtend SI invocation support for multi-part messages lets you configure the DataXtend SI data service operation to return all values and map these values into multi-part messages with appropriate content ID and type information. By invoking a data service operation from a Sonic ESB itinerary, DataXtend SI data services provide an interface of operations that the development tools can use to facilitate creating an invocation step. Additionally, DataXtend SI 8.5 gives you:

- > The ability to specify a Sonic ESB endpoint address in connection details
- > The ability to browse available Sonic ESB endpoints
- > The ability to package data services to deploy on Sonic as Sonic ESB services in a manner similar to packaging web services (you no longer have to specify code generators)
- > Improved fault handling and root cause analysis

With release 8.5, DataXtend SI provides a model-driven environment for designing and developing data services that are based on mediation through a single logical common model. A DataXtend SI data service can transform, validate, enrich, sequence, and merge data. Each data service presents either a canonical interface or an adaptor interface.

SONIC ESB AND DATAXTEND SI 8.5 BENEFIT SUMMARY	
Improved Interoperability & SOA Integration	Data transformation with precise data semantics with reduced costs of evolution and maintenance
	Support for transport headers in DataXtend SI mapping use cases
	DataXtend SI now leverages Sonic ESB multi-part messages for multi-return scenarios
Streamlined Deployment & Management	GUI-driven configuration of Sonic ESB endpoints as DataXtend SI data sources
	DataXtend SI can now leverage the ability of Sonic ESB to support distributed deployment and management, as well as to support Sonic ESB services from DataXtend SI
Increased Developer Productivity	Ability to create native Sonic ESB artifacts directly from DataXtend Studio
	DataXtend SI now contains a Sonic ESB packager that produces per-data service XAR files
	Sonic ESB can now take advantage of industry common models, such as the SID Model in telecom or the ACORD Information Model in insurance
Improved Visibility & Impact Analysis	Improved visibility with Actional for Sonic Connect WS/REST services adds services running on the ESB
	Ability to leverage DataXtend SI to see interdependencies of data exchanges
	DataXtend SI faults are now mapped into Sonic ESB faults when running on the bus

## IMPROVED SOA VISIBILITY AND GOVERNANCE

The combined Sonic ESB and DataXtend SI 8.5 releases also includes improved visibility and impact analysis capabilities—via Progress® Actional®—which allows developers to easily visualize the interdependencies of data exchanges and make changes to critical integration applications without impacting other systems. Key features include:

- > Actional Support for Sonic Connect—With the Sonic Connect and Actional interceptors, you have clear visibility into inbound and outbound RESTful and SOAP calls from Sonic Connect.
- > Configuring Actional Interceptors—When using Progress Actional Management Server with Sonic ESB, you can add additional Actional interceptors to a Sonic ESB container to improve its visibility.

- > Actional Multi-part Message Payload Capture—Allows you to capture multiple message parts for audit/inspection by Actional so that the user can get visibility into their process behavior.

## RESPONDING TO RAPID BUSINESS CHANGE WITH ADVANCED INTEGRATION

The concurrent release of version 8.5 Sonic ESB and DataXtend SI offers a more comprehensive and seamless—yet modular—integration solution that addresses the fundamental limitations of SOA with advanced integration functionalities. By enabling you to effectively decouple both transport and data services within a high-visibility development environment and quickly redeploy them within a robust, yet flexible, SOA, Progress Software gives you the advanced integration tools you need to more quickly respond to rapid business change.

To learn more and request a 90-day product demo go to: [www.progress.com](http://www.progress.com)

### 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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