

Sun ESB for Healthcare

A Better Way to Integrate Your Data



Highlights

The Sun Java Enterprise Service Bus Suite:

- An ESB based on a Service Oriented Architecture; fully integrated for healthcare
- Provides J2EE compliant core integration and composite application development capabilities; supports application connectivity, data transformation, transactions and messaging
- Includes more than 80 adapters to enable interoperability with diverse protocols and application environments
- Automates and orchestrates processes and workflows using industry standards: BPMN and BPEL
- Supports Web services-based connectivity through plug-and-play interoperability between Microsoft's Windows Communications Foundation and Sun's Web Services Interoperability Technology



The Sun Java™ Enterprise Service Bus (ESB) Suite can provide your healthcare organization with real time data integration and advanced composite application capabilities. It can save your organization time and money, while enhancing communication and business process efficiency throughout your operation.

What you're looking for

If your healthcare organization is like many, you have an integration solution in place to handle data from disparate sources — patients, caregivers, payers, labs and/or suppliers. You're probably moving that data on a batch basis or using messaging to periodically move the data with the goal of synchronizing it across applications and environments in your organization. Sound familiar?

But now, you want more. You want to improve the timeliness of the synchronization, with real-time integration. You want to manage processes and bring together resources in real time and automate many of the processes that require manual entry and re-entry of data in your multiple systems. You want more flexibility, more cost-efficiency, more of what's needed to meet HIPAA compliance. And you want that capability with a solution that allows you to build applications that run with your organization's existing systems.

Start with an ESB

An enterprise service bus is a middleware infrastructure that supports enhanced interoperability and service pluggability both within and between your applications. As a standards-based integration backbone, an ESB combines messaging, Web services, transformation, security management and routing for intelligently directed communication and mediation.

It can serve as the foundation for a service-oriented architecture and it can scale to offer enterprise-class performance. And applications that are integrated through an ESB can be added, moved, changed or deleted with minimal disruption to your other applications.

What should you look for in a specific ESB? Consider at least four key capabilities: adapters, data transformation, orchestration, and communications.

Adapters — getting applications to work together

Your organization uses a variety of applications from different sources. You need adapters to help these applications work together.

Adapters can:

- provide access to applications that publish non-standard APIs
- screen scrape applications that don't publish APIs.
- provide access to relational and non-relational databases and file structures

Transformation — creating a common data form

You need a data form that all your systems can understand. An ESB should support transformation into that form without requiring code to be written by hand. And you should be able to do this with both XML and non-XML data.

Orchestration — managing business processes

You need a solution that automates and orchestrates complex business processes spanning programs, devices, people and partners. An ESB should include industry standard Business Process Modeling Notation (BPMN) to facilitate the definition of your business processes. And it should generate Business Process Execution Language (BPEL) for managing and monitoring these processes.

Messaging and Web services — promoting communication

Your ESB should support JMS and Web services as well as healthcare-specific protocols. It should also give you the flexibility to work with diverse legacy communication protocols, e.g., Microsoft MSMQ, IBM WebSphere MQ and Oracle AQ for messaging, as well as CICS ECI and Microsoft COM, DCOM and COM+ for request/reply communications.

Consider the Sun ESB

As a foundational component of the Sun Java Composite Application Platform Suite (CAPS), the industry's leading integration and composite application development solution, Sun Java ESB provides all these capabilities, plus some unique functionality to enhance your healthcare IT efforts.

The solution for healthcare composite applications

The Sun Java Enterprise Service Bus Suite is based on Sun's 18 years of experience in offering integration solutions in the healthcare industry.

A comprehensive array

Sun ESB provides myriad capabilities for your environment. It has more than 80 different adapters for general and healthcare-specific protocols and application environments. It supports XML and non XML data along with general and healthcare-specific communications requirements. It also offers workflow and orchestration with BPMN and BPEL. It's the perfect solution for your customer data integration, for EPR, for Business Activity Monitoring and much more.

Fully integrated

With Sun ESB, your IT people won't have to integrate their integration tools. Unlike many products in the market, Sun ESB was integrated by engineers, not by marketing people. It has a single development environment and a single repository. It has a single environment for version control and configuration management. It also offers a "single" runtime environment, which means that there's a single security framework, a single management and monitoring framework and single transaction management framework.

Standards support beyond the standard

Every ESB solution is supposed to support standards. But, it's the way that the solution supports standards that's really important. Consider Microsoft's Windows Communication Foundation (WCF) and Sun's Web Services Interoperability Technology (WSIT). Microsoft and Sun have partnered to ensure plug-and-play interoperability between these two critical implementations of the Web service standards.

Learn More

Get the inside story on the trends and technologies shaping the future of computing by signing up for the Sun Inner Circle program. You'll receive a monthly newsletter packed with information, plus access to a wealth of resources. Register today at sun.com/joinic.

Portability support

But "plug-and-play" interoperability is just part of the standards story. You'll also want "write once/run anywhere" portability. With Sun, you get portability across multiple Java application servers, including BEA WebLogic, IBM WebSphere, JBoss and Oracle. And you get portability across a wide range of operating systems, including Solaris, Linux, Windows, HP-UX, HP NonStop, HP True64, AIX and z/OS.

Whichever way you go, your healthcare organization will get the full benefit of Sun ESB.

About Sun

Sun provides a complete portfolio of affordable, interoperable and open software systems designed to help you maximize the utilization and efficiency of your IT infrastructure. Built from the secure, highly available foundations of UNIX® and Java, these systems deliver implementations that are preintegrated and backward compatible. Sun's portfolio consists of Solaris™ and Linux software for SPARC® and x86 platforms, Sun N1™ software and the Sun Java System.