

Sun Java™ Composite Application Platform Suite

Supporting Regional Health Information Organizations (RHIO)



Highlights

- Responds quickly to RHIO integration requirements
- Facilitates information technology (IT) operations convergence with a fully integrated suite
- Facilitates real-time business performance visibility across the organization
- Scales to support increases in ramp up and population volume
- Facilitates delivery of secure, on-demand information at the point of care
- Facilitates provision of comprehensive view of patient health history including disparate health records
- Leverages Enterprise Master Patient Index (EMPI) for unique patient identification
- Lowers total cost of ownership (TCO) for existing applications
- Offers Social Security Number (SSN) remediation and unique identifiers



As health care payers and providers aim to adopt standards-based, integrated, and interoperable information technology (IT) to support Regional Health Information Organizations (RHIOs), they are faced with the challenge of aggregating and delivering appropriate care information from disparate sources. Regional health care initiatives strive to produce more efficient, integrated, and interoperable health information systems that provide improved patient satisfaction and reduced medical errors. At the same time, participating health care entities want to be rewarded with lower cost health care delivery and improved workflow.

As the leading provider of technology solutions to the health care space, Sun supports these goals through solutions for the integrated exchange of health-related information among health care providers, payers, public health agencies, and consumers as an essential function of initiatives such as RHIO and the National Health Information Network (NHIN).

With the Sun Java™ Composite Application Platform Suite (CAPS), formerly the SeeBeyond™ Integrated Composite Application Network Suite (ICAN), Sun helps health organizations to rapidly assemble and deploy enterprise-scale, end-user applications built on new or existing systems and infrastructure to share critical health information between entities. Java CAPS provides health institutions with technologies that help deliver standards-based, secure presentations of integrated data from disparate information systems across the continuum of care.

Challenges

Today's health care environment demands that patient identification and related medical records be made available across multiple information systems and infrastructures. At the same time, information privacy, unique patient identifiers, and on-demand access to appropriate information are cornerstones of the RHIO promise. As the RHIO grows and expands in membership and provider participants, the system must scale to meet demand.

New technologies and sources of information also must be able to seamlessly integrate into the existing system, without downtime or laborious adaptation.

Java CAPS for RHIOs Solution Overview

Sun is uniquely poised to support RHIO objectives through technology that provides accurate, secure information sharing to facilitate online, real-time access to clinical information for all patients in a given region, state, or even an entire nation. As evidenced by its extensive use in domestic and international data exchanges, Java CAPS is the clear solution of choice for critical and timely health information sharing between health organizations and their information systems, with proven scalability and reliability across health infrastructures. Sun is the industry leader in health care technology, with experience in the integration of Health Level 7 (HL7), Java 2 Platform, Enterprise Edition (J2EE™) and eXtensible Markup Language (XML) messaging, helping to create a seamless flow of all patient and care information across a unified and open, standards-based platform. Offering a leading enterprise master patient index, Sun can deliver advanced matching and reconciliation logic of records across the region. Standards and regulatory mandates, such as those outlined by the Health Insurance Portability and Accountability Act (HIPAA) and eventually NHIN, are easily implemented by leveraging Java CAPS.

Java CAPS rapidly responds to evolving RHIO business needs by focusing on improving patient safety and producing a dramatic reduction in the costs for health care delivery through information exchange. As a scalable solution, Java CAPS offers outstanding performance with low latency. It allows for the continued use of existing systems and system interfaces while introducing standard systems or processes, such as Social Security Number (SSN) remediation. In addition, it transitions transactions and data flows gradually, driven by RHIO business objectives, organizational patterns, and standards.

Offering a flexible and reliable solution for the collection and exchange of disparate data, Java CAPS requires minimal management overhead while having a significant impact on the efficient tracking, managing, and analysis of health information. The business and patient safety effect is even more dramatic when extended across regional health care organizations for IT operations convergence, helping to integrate previously siloed, redundant, and inflexible information systems while creating business processes and workflow that leverage existing systems through Service Oriented Architecture (SOA) and composite application technologies.

Delivering results

With both RHIO initiatives finding traction across the United States and interoperability standards evolving for a subsequent national project, health care entities must find an efficient method to capture health data, integrate existing systems, and prepare for future health analysis trends. Java CAPS has the ability to meet this challenge and deliver a solid foundation in

regional health technology environments to enable patient identification and electronic health records.

Technical overview

Java CAPS is part of the Sun Java Enterprise System. The Java Enterprise System delivers enormous value to IT organizations by providing business agility, security, and optimization solutions that help reduce infrastructure software cost and complexity. Java CAPS encompasses other components of the Java Enterprise System, enabling customers to rapidly build health care solutions.

- Sun SeeBeyond eGate™ Integrator 5 provides a J2EE compliant and Web services-based distributed integration platform for application connectivity, data transformation, transactions, and messaging.
- Sun SeeBeyond eInsight™ Business Process Manager 5 automates and orchestrates complex business processes and workflows that span Web services, systems, people, and companies.
- Sun SeeBeyond eVision™ Studio 5 creates composite Web applications to provide end users with rapid access to business processes and back end systems.
- Sun SeeBeyond ePortal™ Composer 5 aggregates, personalizes, and manages access to composite applications for end users.
- Sun SeeBeyond eTL™ Integrator 5 provides extraction, transformation, and loading services for bulk data between files and databases.
- Sun SeeBeyond eXchange™ Integrator 5 automates business-to-business (B2B) interactions through Web-based trading partner and protocol management, message handling, message tracking, and security.
- Sun SeeBeyond eView™ Studio 5 generates tailored single-view applications that cleanse, match, and index data to enable a single view of data entities such as businesses, people, and products across the enterprise.
- Sun SeeBeyond eIndex™ Global Identifier 5 is an Enterprise Master Patient Index (EMPI) solution. It creates a cross-reference of patient information kept current by rules defined by health care organizations to identify, match, and update patient data originating from multiple source applications.
- Sun SeeBeyond eBAM™ Studio 5 generates tailored Business Activity Monitoring (BAM) applications with executive dashboards that track key performance indicators and provide exception alerting and management for proactive business actions.
- Sun SeeBeyond eWay™ Intelligent Adapters 5 accelerate integration with Web services enabled, Java Cryptography Architecture (JCA) based connectivity. Sun offers more than 80 packaged eWay adapters that expose JCA and Web services-compliant interfaces for the purpose of application and business integration.

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