

# Sun Java™ Composite Application Platform Suite for PHIN

Improving public health through technology



## Highlights

### Business benefits

- Fast response to PHIN requirements
- Fully integrated suite facilitates IT operations convergence
- Real-time business performance visibility
- Lower TCO for existing applications

### Technical benefits

- Flexible implementation leverages existing infrastructure
- Business process management
- ETL services move data between files and databases
- Web-based composite applications
- Standards enforcement including HL7
- J2EE™ certified and Web services-based integration platform



The Centers for Disease Control (CDC) is directing the adoption of a standards-based, integrated, and interoperable IT network to support public health work — the Public Health Information Network (PHIN). The PHIN initiative is aimed at producing more efficient, integrated, and interoperable public health information systems, while providing faster recognition and response to public health concerns.

### Technology solutions for health care

With the PHIN initiative now a reality and standards in place, health care entities must find an efficient method to capture health data, integrate existing systems, and prepare for future health analysis trends.

The Sun Java™ Composite Application Platform Suite (CAPS) can enable public health organizations to assemble and deploy rapid, enterprise-scale, end-user applications built on new or existing systems and infrastructure to exchange critical health information. Java CAPS provides regional, state, and national government institutions with the technology they need to deliver standards-based, secure presentation of integrated data from disparate information systems.

### Why choose Sun Java™ Composite Application Platform Suite?

Sun is uniquely poised to help health care customers support the CDC PHIN standards-based specifications for IT infrastructures and information sharing. Java CAPS is an excellent solution for exchanging critical and timely health information between public health associations and their information systems, with proven scalability and reliability across entire national health infrastructures.

Sun is an industry leader in health care technology, with experience integrating Health Level 7 (HL7); the Java 2 Platform, Enterprise

Edition (J2EE™) technology; and eXtensible Markup Language (XML) messaging, creating a seamless flow of patient and care information across a unified and open, standards-based platform.

### Meeting regulatory mandates

Standards and regulatory mandates, such as those outlined by PHIN, are easily implemented with Java CAPS. A flexible and reliable solution for the collection and exchange of public health data, the Suite requires minimal management overhead while enabling efficient tracking, managing, and analysis of health information. The impact of this solution can be even more dramatic when extended across health care organizations. It promotes IT operations convergence by integrating previously siloed, redundant, and inflexible information systems. It is ideal for creating business processes and workflow that leverage existing systems through Service-Oriented Architecture (SOA) and composite application technologies.

Java CAPS rapidly responds to health care customers' evolving business needs by focusing on reducing the number of applications required, allowing the continued use of existing systems and system interfaces while introducing standard systems. It gradually transitions transaction and data flows driven by PHIN business objectives, organizational patterns, and standards.

### Business benefits

By complying with PHIN requirements, public health organizations can improve operational performance by rationalizing and extracting greater value from existing technology assets. Successfully building an integrated composite application network across disparate enterprise systems helps bring organizations into compliance while lowering total cost of ownership (TCO), delivering more flexible responses to changing business conditions, and fostering public health safety.

Java CAPS assists organizations to make better use of systems already in place through SOA. It seamlessly connects health departments, hospitals, health plans, labs, vaccination centers, pharmaceutical groups, law enforcement, and the public, automating core PHIN business processes to dramatically improve operations. Through Web technologies, these groups are able to capture health data, utilize tools to analyze trends, and report alerts.

### Providing the tools IT needs now

Rapidly changing business conditions and objectives demand business agility. When a new business demand like HIPAA arrives, IT must invariably respond by building new custom applications, licensing and implementing new packaged applications, or extending and repurposing existing applications. To deliver value and business agility, IT needs a new set of tools and an approach that enables reuse of existing IT assets while empowering rapid development of new functionality needed by the business.

These Java CAPS products and technologies help address health care's technology requirements:

- Sun™ SeeBeyond eGate™ Integrator 5 provides a J2EE-compliant and Web services-based distributed integration platform for application connectivity, data transformation, guaranteed 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 end-user access to composite applications.
- Sun SeeBeyond eTL™ Integrator 5 provides extraction, transformation, and loading (ETL) services for bulk data between files and databases.
- Sun SeeBeyond eXchange™ Integrator 5 automates B2B interactions through Web-based trading partner and protocol management, message handling, message tracking, and security.
- Sun SeeBeyond eView™ Studio 5 generates tailored 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 that identify, match, and update patient data originating from multiple sources.

#### Learn More

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- Sun SeeBeyond eBAM™ Studio 5 generates executive dashboards for Business Activity Monitoring applications. The dashboards track key performance indicators while providing exception alerts and management for proactive business actions.
- Sun SeeBeyond eWay™ Intelligent Adapters 5 accelerate integration with Web services-enabled, Java Cryptography Architecture (JCA) based connectivity.

### A comprehensive solution

This offering delivers one of the most comprehensive SOA integration platforms available. Suite users can deliver immediate business value by constructing composite applications that reuse existing IT application assets in combination with newly created functionality.

Java CAPS is available through Sun's health care solution experts. Personalized demonstrations and return on investment (ROI) analyses are now available. Contact Sun to learn how your organization can move toward a leadership position in data integration, federal reporting, and public health safety.