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HEALTH SCIENCES

ORACLE HEALTH SCIENCES INFORMATION MANAGER

RAPIDLY-INSTALLED, WEB-SERVICES APPLICATION FOR SECURE, POLICY-MANAGED COMMUNICATIONS OVER THE INTERNET

KEY FEATURES

- Federated hybrid infrastructure support
- Turn-key integration with Nationwide Health Information Network (NwHIN) web-services gateway
- Consumer consent management support
- Web services for data persistence, retrieval, staging, and transformation
- Public Key Infrastructure (PKI) support for "Direct Project" Secure Health Email

KEY BENEFITS

- Connect all applicable healthcare providers to an HIE
- Facilitates secure, access-consent-policy–based communication over the Internet
- Secure all protected healthcare information through the use of encryption
- Comply with multiple general privacy and security policy requirements for the operation of an HIE
- Includes a Public Key Directory for Provider and Consumer Secure Health Email communications
- PKI Certificate Authority certificate management

The Oracle Health Sciences Information Manager includes extensible, open, standards-based components built upon a reliable technology infrastructure for the secure exchange of electronic health information. A key component of Oracle's Health Information Exchange solution, Oracle Health Sciences Information Manager empowers healthcare entities globally to reduce costs, to enhance revenues, and, most importantly, to improve patient care.

Further, Oracle's Health Information Exchange solution is helping providers in three vital areas: complying with governmental regulations; realizing a higher level of personalized healthcare; and, particularly in the U.S., meeting 'meaningful use' requirements.

Oracle Health Sciences Information Manager supports secure, policy-managed communications of health data over the Internet. Oracle Health Sciences Information Manager also enables organizations to make this data available for 'meaningful use' and extend the power of personalized healthcare to the consumer. It facilitates the movement of data within privacy and regulatory guidelines in order to ensure patient trust. It complies with Integrating the Healthcare Enterprise (IHE) web services, the U.S. Federal Nationwide Health Information Network XACML and Public Key management through the use of international standards. Oracle Health Sciences Information Manager provides benefits to patient care and enterprise business objectives by rapidly enabling the secure sharing of health information, when and where it's needed.

Dynamic Privacy Policy Resolution

More than ever, the emergence of personalized healthcare creates the need for dynamic adjudication of multiple privacy policies for each information request including policies based on Federal and State regulations, organizational policies, and policies related to individually-signed patient consent documents. Release of genetic information, as well as other Protected Health Information (PHI), may be used either for patient care purposes or for translational research purposes. However, the ability to release information for treatment, payment, and operations (TPO) is very different from the ability to release information for research.

Oracle Health Sciences Information Manager provides the secure communication infrastructure, as well as the dynamic policy infrastructure, that integrates privacy and security management into a single solution. Oracle Health Sciences Information Manager provides web services to business process management solutions via multiple components. These include a:

- Health Policy Engine for XACML-based access consent policy decisions
- Health Policy Monitor compliant with IHE ATNA audit server standards
- Health Record Locator compliant with IHE XDS.b document registry standards
- Public Key Directory for "Direct Project" Secure Health Email support

RELATED PRODUCTS

The following complementary products and services are most often used with the Oracle Health Sciences Information Manager

- Oracle Health Sciences Information Gateway
- Oracle Healthcare Master Person Index
- Oracle Healthcare Transaction Base
- Oracle Health Sciences Integration Engine
- Oracle Sun Ray Software
- Oracle WebCenter Suite 11g
- Oracle Identity and Access Management Suite Plus
- Oracle Business Process Management Suite
- Oracle Virtual Assembly Builder
- Oracle Governance, Risk, and Compliance Manager
- Oracle Enterprise Manager

ABOUT CONNECT:

Linking providers and networks CONNECT is an open-source software solution that supports health information exchange at the local and national levels in the United States. CONNECT uses U.S. federal standards and governance to make sure that HIEs are compatible with other exchanges being set up throughout the country. Oracle Health Information Exchange solutions suite implements the CONNECT architecture and components with health information organizations (HIOs). This CONNECT architecture can be used to set up an HIE within an HIO, and from there to securely share information with other public and private HIE networks.

Key integrations include enterprise audit servers, portals, transformation engines, collaboration systems, and EHR systems. Oracle Health Sciences Information Manager may be extended with end-user applications, business process management solutions, and with data transformation services that also take advantage of the privacy and security capabilities available via standards-based web services.

Ease of Installation and Management

Oracle Health Sciences Information Manager leverages the CONNECT open source, reference architecture and Oracle server virtualization to provide a broad range of international-standards-based web services to HIE applications in a management and performance-optimized solution.

Oracle Health Sciences Information Manager is a software solution delivered as an Oracle VM template assembly (TA) that supports secure electronic communication of health information. Its TA architecture includes multiple components that provide both data persistence capabilities and integration with consumer/provider end-user applications. In various implementation combinations, Oracle Health Sciences Information Manager supports federated HIE, including enterprise, regional, statewide, or national HIE models such as the US Nationwide Health Information Network (NwHIN) and enterprise "Direct Project" Secure Health Email deployments that might be highly distributed, highly centralized, or hybrid in nature. The NwHIN requires a set of standards, services and policies that enable secure health information exchange over the Internet; the Direct Project developed specifications for a secure, scalable, standards-based Secure Health Email for HIE participants (including providers, laboratories, hospitals, pharmacies and patients) to send encrypted health information directly to known, trusted recipients over the Internet.

Specifically, Oracle Health Sciences Information Manager contains a Public Key Directory that supports secure communication between consumer ISP email and common enterprise email systems. To manage communications, Oracle Health Sciences Information Manager maintains audit trails of all communications and makes secure health email communications available for selective review and import into IHE XDS-compliant EHRs (such as US Federally certified EHRs) and PHRs.

Fully Integrated with Oracle's Health Information Exchange Solution

Oracle's Health Information Exchange solution also includes the Oracle Health Sciences Information Gateway, Oracle Healthcare Master Person Index, Oracle Healthcare Transaction Base, and Oracle Health Sciences Integration Engine.

Oracle Health Sciences Information Gateway provides the secure communication infrastructure, as well as the dynamic policy infrastructure, that integrates privacy and security management into a single solution.

Oracle Health Sciences Information Manager leverages the Oracle Healthcare Master Person Index to support the Internet Patient Discovery information request web service. This web service provides a set of patient demographics that may return, if allowed by policy, a patient identifier that is utilized to locate patient documents in one or more document repositories.

The Oracle Healthcare Transaction Base not only provides an IHE-compliant document repository function but also is able to create HL7 CCD-compliant patient summary documents from data originating in multiple source systems. Its Enterprise Terminology Service enables the Oracle Healthcare Transaction Base to normalize terminologies within an extremely high-volume, high-performance, transactional environment.

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Oracle Health Sciences Integration Engine is a healthcare-dedicated integration hub that enables interoperability while providing the technology and functions for solving complex and evolving information exchange requirements. It provides interface analysts with easy-to-use, full functionality for simple and complex healthcare data integration, supported by drag-and-drop interface development and real-time monitoring of system interfaces.

In all, Oracle's Health Information Exchange solution allows public sector Health Information Exchanges or Enterprise Health Information Exchanges to adapt and configure many federated, hybrid health information exchange models for communication of sensitive information over the Internet.

Contact Us

For more information about Oracle Health Sciences Information Manager, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

Oracle is committed to developing practices and products that help protect the environment

Hardware and Software, Engineered to Work Together