ORACLE HEALTH SCIENCES
INFORMATION APPLIANCE

Oracle Health Information Exchange, an extensible, open, standards-based suite of solutions built upon a reliable technology infrastructure for the secure exchange of electronic health information. A key component of Oracle Health Information Exchange, Oracle Health Sciences Information Appliance is empowering healthcare entities globally to reduce costs; enhance revenues; and, most importantly, improve patient care.

Further, they are 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 Appliance supports secure, policy-managed communications of health data over the Internet. Oracle Health Sciences Information Appliance enables organizations to improve their governance and compliance related to Internet communications, making this data available for Meaningful Use, and extending 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.

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 Appliance 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 Appliance utilizes a web-service-orchestrating base infrastructure focused on privacy and security management that contains multiple components, including the:

- Oracle Health Sciences Information Appliance Health Policy Engine
- Oracle Health Sciences Information Appliance Policy Monitor
- Oracle Healthcare Master Person Index
- Oracle Health Sciences Information Appliance Health Record Locator,
- Oracle Healthcare Transaction Base
Key integrations include enterprise audit servers, portals, transformation engines, collaboration systems, and EHR systems. Oracle Health Sciences Information Appliance 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 Gateway 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, an ideal complement to the Oracle Exadata hardware appliance and pre-installed Oracle VM.

Oracle Health Sciences Information Appliance is a software—i.e., virtual— appliance delivered as an Oracle VM template assembly (TA) that supports secure electronic communication of health information. Its TA architecture includes support for a DMZ Gateway template and a datacenter adapter template, along with adapter plug-in template integrations that provide both data persistence capabilities and integration with consumer/provider end-user applications. In various implementation combinations, Oracle Health Sciences Information Appliance TAs support federated HIE, including enterprise, regional, statewide, or national HIE models that might be highly distributed, highly centralized, or hybrid in nature.

Fully Integrated with Oracle Health Information Exchange

Oracle Health Information Exchange is a solution offered by Oracle with an increasing number of components. The core of Oracle Health Information Exchange includes the Oracle Healthcare Master Person Index and the Oracle Healthcare Transaction Base orchestrated into a single, integrated whole by Oracle Health Sciences Information Appliance. Oracle Health Sciences Information Appliance 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 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. Oracle Health Sciences Information Appliance allows this high-performance environment to be extended with policy-managed requests for information.

In all, the component solutions within Oracle Health Information Exchange allow public sector Health Information Exchanges (HIEs) 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 Appliance, 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

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