ORACLE HEALTHCARE MASTER PERSON INDEX
INTEGRATING THE HEALTHCARE ENTERPRISE

Oracle Healthcare Master Person Index provides a single point of reference to information about a patient, clinician, payer, or other healthcare entity within a healthcare organization and is part of the Oracle Health Information Exchange solution. It enables an organization to ensure availability of unified, trusted data for healthcare entities from many systems that reference the entity with different identifiers or names.

Integrating the Healthcare Enterprise (IHE) initiatives stimulate integration of healthcare information across multiple healthcare entities. Oracle Healthcare Master Person Index implements important IHE profiles from the IHE IT Infrastructure domain to provide trusted patient identity resolution and demographics information securely. It supports the IHE objective of placing timely, accurate, and trusted medical information in the hands of healthcare professionals.

Overview of IHE

Integrating the Healthcare Enterprise (IHE) is a nonprofit organization created by healthcare professionals and industry leaders with the objective of improving the way computer systems in healthcare share information to create an integrated information network. IHE does not create standards but promotes the coordinated use of established standards such as DICOM and HL7 to address specific clinical needs in support of optimal patient care. Systems developed in accordance with IHE specifications communicate with one another better, are easier to implement and enable care providers to use information more effectively. In order to achieve the goals of IHE, a large spectrum of healthcare organizations need to establish interoperable channels to share patient-relevant healthcare information.

Figure 1. Healthcare entities are demanding greater interoperability to achieve meaningful use.
Patient identification and the ability to reliably share patient demographics information is more challenging when there are multiple organizations involved and these organizations evolve and expand into multiple geographies, often with fragmented information assets residing in a variety of sources.

IHE’s IT Infrastructure domain defines the implementation of established standards to achieve integration and interoperability across these sources and consumers of healthcare information. Oracle Healthcare Master Person Index implements a number of established standards specified by IHE in order to promote sharing of relevant and accurate medical information.

**Advanced Matching and IHE Profiles**

Oracle Healthcare Master Person Index implements guidelines and standards put forth by Integrating the Healthcare Enterprise (IHE). It leverages advanced standardization and matching algorithms to cross-reference and uniquely identify patients across multiple source systems thereby providing a unified view of the patients in a healthcare information exchange. The product quickly reconciles patient identity and associated demographics to create a trusted single view of the patient. To assure compatibility with other vendors and healthcare organizations, Oracle Healthcare Master Person Index implements the following IHE profiles: Patient Identifier Cross Referencing (PIX), Patient Demographics Query (PDQ), Patient Administration Management (PAM), Audit Trail and Node Authentication (ATNA), and Consistent Time (CT). All of these profiles require the use of Health Level Seven (HL7) version 2 and/or version 3 standards as constrained in the specification.

**Related Products and Services**

- Healthcare Master Person Index
- HSGBU Consulting Services
- Health Sciences Information Manager
- Health Sciences Information Gateway
- Healthcare Data Repository
- Identity Management
- Enterprise Healthcare Analytics

**Figure 2. Oracle Healthcare Master Person Index offers comprehensive and landscape-agnostic solution for IHE Profiles.**

**Comprehensive, Landscape-agnostic Implementation of IHE Profiles**

IHE Profiles implementation in Oracle Healthcare Master Person Index manages all actor-specific messages defined by IHE IT Infrastructure technical frameworks for PIX Manager, Demographics Supplier, Demographics Consumer, Encounter Consumer, Audit Record Repository, Secure Application, and Time Client. The product employs a specialized
implementation of HL7 messaging to support natively, both HL7 v2 and HL7 v3 messages to facilitate information sharing in a health information exchange environment.

Native HL7 Message Handling

The IHE Integration Layer of Oracle Healthcare Master Person Index is HL7 v2 and HL7 v3 message-aware and can receive and validate incoming HL7 messages and handle standards defined acknowledgements. HL7 v2 is supported through a HL7 v2 Server that uses secured TCP/IP and Minimal Lower Layer Protocol (MLLP). HL7 v3 is supported through SOAP messages transported over HTTP/HTTPS. Support for IHE minimizes configuration level changes. This layer works seamlessly with the Master Person Index Layer to provide the appropriate patient identity resolution and demographic information responses.

Patient Identity and Demographics Remediation

The Master Person Index Layer is the core patient identity resolution component that leverages Oracle Healthcare Master Person Index’s powerful matching and standardization engines to uniquely identify and cross-reference patients based on a canonical patient object model.

The match engine is powerful, extensible, and configurable with high-performance capability. It compares complex data records containing a multitude of data types and calculates a global composite weight that reflects how closely the records match. It then builds a cross-index that provides a single view of the patient information from multiple source systems in real time.

Policy Governance and Compliance

Oracle Healthcare Master Person Index implements IHE ATNA Profile requirements and generates and transmits all audit messages required of the covered profile actor roles it plays. In addition, an Audit Record Repository provides common logging, alerting, error handling, and reporting mechanisms to support secure transmission and auditing for all covered healthcare application systems.

Proven Interoperability with Other Vendors and Healthcare Entities

Oracle Healthcare Master Person Index participated in the North American IHE Connectathon 2013 and successfully proved interoperability with various leading vendors of healthcare applications and solutions. The Connectathon 2013 featured more than 150 systems from over 100 participating organizations. More than 3500 successful tests of IHE Integration Profiles were performed and verified. Oracle’s IHE Integration Statement following this interoperability event is available at:


Availability

Oracle Healthcare Master Person Index is available as a standalone product offering or as a component of Oracle Health Information Exchange. Oracle Health Information Exchange facilitates the movement of data within privacy and regulatory guidelines to ensure patient trust. This enables organizations to improve their governance and compliance related to Internet communications and makes this data available for Meaningful Use while extending the power of personalized healthcare to the consumer. Oracle Healthcare Master Person Index is fully integrated with Oracle Health Information Exchange solution to empower healthcare entities globally to reduce costs, enhance revenues, and most importantly, improve patient care.
Contact Us
For more information about Oracle Healthcare Master Person Index, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.