

Oracle Healthcare Master Person Index



COMPREHENSIVE, AGILE,
GOVERNANCE-ENABLED SOLUTION
FOR PATIENT CROSS-REFERENCING
AND PATIENT DEMOGRAPHICS
MANAGEMENT

KEY FEATURES

- Out of the box patient model supports both HL7 v2 and v3 patient attributes
- Pre-configured, optimized matching and standardization rules
- Supports these IHE profiles: PIX v2, PIX v3, PDQ v2, PDQ v3, HPD, XPID, ATNA, CT, PAM (PIM and PEM)
- Native message and transport protocol support for IHE profiles based on HL7 v2 and v3 standards
- Creates an integrated and consistent view of patient data across multiple patient domains
- Provides a Web-based, single patient-view-data stewardship console
- Successful participation in North American Connectathon to prove ease of interoperability with leading application vendors

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. Oracle Healthcare Master Person Index is also 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 and secure patient identity resolution and demographics information. It supports the IHE objective of placing timely, accurate and trusted medical information in the hands of healthcare professionals.

Overview of IHE

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. Rather, it promotes the coordinated use of established standards such as Health Level Seven (HL7) and DICOM to address specific clinical needs that support patient care coordination. 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.

KEY BENEFITS

- Greater Productivity: Proven standards compliance for quick deployments in Healthcare Information Exchanges
- Enhanced Governance and Risk Management: Compliance with IHE audit messaging and recording standards
- Lower Costs: Pre-packaged solution with native support for HL7 messaging
- Reliability: Extremely scalable and provides accurate, high performance results

SUPPORTED IHE PROFILES

- Patient Identifier Cross Referencing (PIX) HL7 v2.x
- Patient Demographics Query (PDQ) HL7 v2.x
- Patient Identifier Cross Referencing (PIX) HL7 v3
- Patient Demographics Query (PDQ) HL7 v3
- Healthcare Provider Directory (HPD)
- XAD-Patient Identity Change Management (XPID)
- Patient Administration Management - Patient Identity Management (PIM) and Patient Encounter Management (PEM)
- Audit Trail and Node Authentication (ATNA)
- Consistent Time (CT)

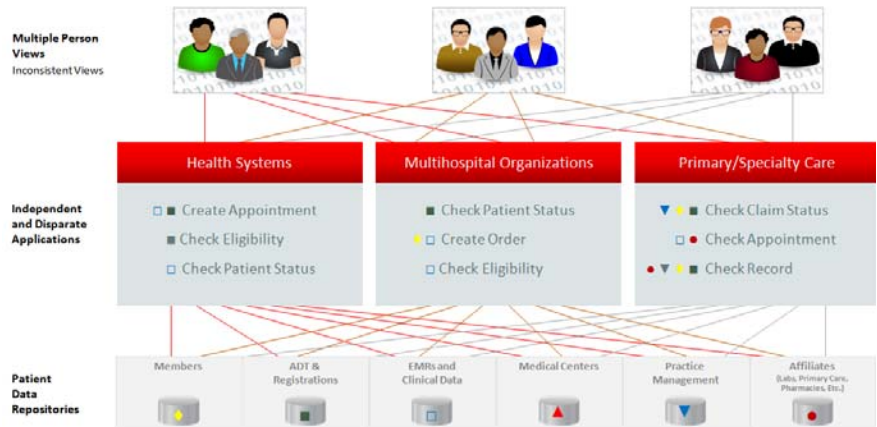


Figure 1. Healthcare entities are demanding greater interoperability for seamless patient care coordination

When multiple organizations with fragmented information assets are expanding into multiple geographies, it is very challenging to share patient identification and demographic information in a reliable manner.

IHE's IT Infrastructure domain defines the implementation of established standards to achieve integration and interoperability across these fragmented 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 (IHE). By leveraging advanced standardization and matching algorithms to cross-reference and uniquely identify patients across multiple source system, it provides 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), Healthcare Provider Directory (HPD), Patient Administration Management (PAM), XAD-Patient Identity Change Management (XPID), Audit Trail and Node Authentication (ATNA) and Consistent Time (CT). Many 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
- Health Sciences Information Manager
- Healthcare Data Repository
- Identity Management
- Enterprise Healthcare Analytics
- HSGBU Consulting Services

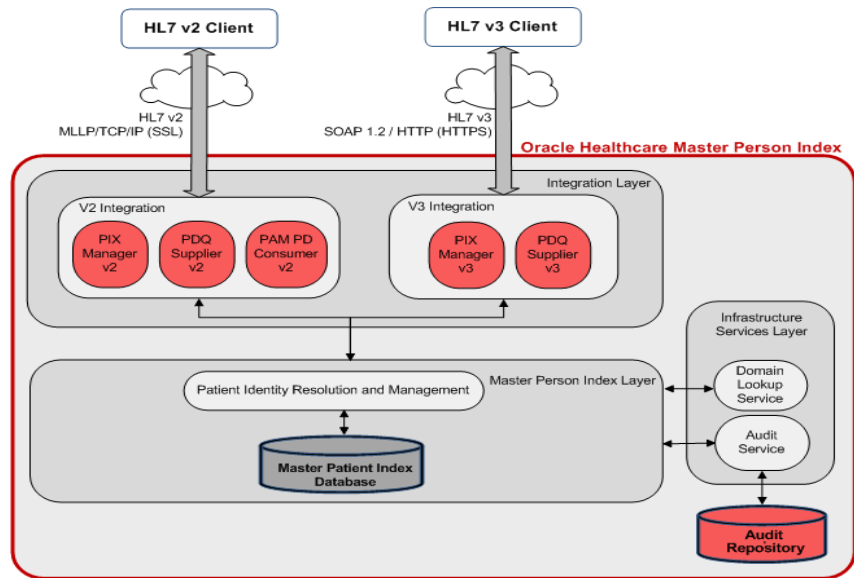


Figure 2. Oracle Healthcare Master Person Index offers comprehensive and landscape-agnostic solution for IHE Profiles.

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, Provider Information Directory, Demographics Consumer, Encounter Consumer, Audit Record Repository, Secure Application, and Time Client.

The product employs a specialized implementation of HL7 messaging. This natively supports both HL7 v2 and HL7 v3 messages to facilitate information sharing in a health information exchange environment. The specialized implementation of HL7 messaging ensures that IHE-standards-based implementations of Oracle Healthcare Master Person Index can be completely landscape agnostic, not requiring a separate integration engine.

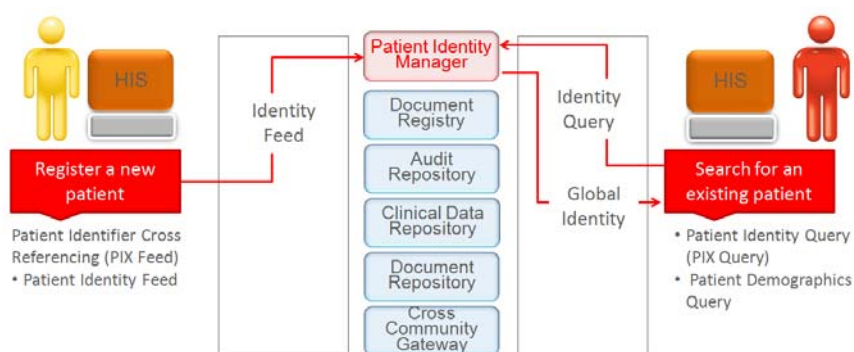
Native HL7 Message Handling

The IHE Integration Layer of Oracle Healthcare Master Person Index is HL7 v2 and HL7 v3 message-aware. It 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. These engines 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. Then in real-time, it builds a cross-index that provides a single view of the patient information from multiple source systems.



Standards-Driven Healthcare Provider Directory

Oracle Healthcare Master Person Index includes a solution for a standards-based Healthcare Provider Directory covering individual and organizational providers. This solution implements the IHE Healthcare Provider Directory (HPD) profile. Options for accepting patient information feed and the ability to participate in federation are also supported. This solution enhances healthcare organizations' ability to identify healthcare providers, locate their details and efficiently deliver comprehensive, safe and timely healthcare services

Policy Governance and Compliance

Oracle Healthcare Master Person Index implements IHE ATNA Profile requirements as well as generates and transmits all audit messages required of the covered profile actor roles it plays.

Proven Interoperability with Other Vendors and Healthcare Entities

Oracle Healthcare Master Person Index participated in the North American IHE Connectathon2015 and successfully proved interoperability with various leading vendors of healthcare applications and solutions. The Connectathon 2015 featured more than 160 systems from approximately 100 participating organizations. Thousands of successful tests of IHE Integration Profiles were performed and verified by the participants at this event. Oracle's IHE Integration Statement following this interoperability event is available at:

<http://www.oracle.com/us/industries/healthcare/062964.html>

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. It also makes the data available for seamless care coordination across providers, 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 global healthcare entities 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.

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Hardware and Software, Engineered to Work Together

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