The purpose of this page is to highlight technologies that can support the OpenHIE Architecture and OpenHIE workflows. Please note:

- The community is moving toward validating parts of the OpenHIE Architecture Specification that can be supported with specific software. Once completed, this page will be updated to specify parts of the specification that are supported.
- The following software is not intended to be a complete or thorough list.
- There are also commercial offerings which may meet the the OpenHIE specification.

<table>
<thead>
<tr>
<th>OpenHIE Component / Type of Tool</th>
<th>Application</th>
<th>Links to Software</th>
<th>Software Description</th>
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</thead>
<tbody>
<tr>
<td>Interoperability Layer</td>
<td></td>
<td>OpenHIM - GitHub</td>
<td>Open Health Information Mediator (OpenHIM) is a middleware system that aims to enable easier interoperability between disparate health information systems; essentially this piece of software allows different systems to talk to each other and exchange information.</td>
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<td></td>
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<td>Docker:</td>
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<td></td>
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<td>• OpenHIM core</td>
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<td>• OpenHIM console</td>
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<tr>
<td>Terminology Services</td>
<td></td>
<td>DTS Web site with Links to software</td>
<td>Distributed Terminology System (DTS) is an integrated set of open source components that provides comprehensive terminology services in distributed application environments. DTS supports national and international data standards, which are a necessary foundation for comparable and interoperable health information, as well as local vocabularies. Typical applications for DTS include clinical data entry, administrative review, problem-list and code-set management, guideline creation, decision support and information retrieval.</td>
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<tr>
<td></td>
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<td>MEDIC CR - GitHub</td>
<td>MEDIC Client Registry is a master patient index developed under Mohawk College's Natural Sciences and Engineering Research Council of Canada (NSERC) grant to build and a test version of the pan-Canadian Electronic Health Record System blueprint as prescribed by Canada Health Infoway. This reference implementation project is intended to assist developers in the development of Client Registry software, customer interfaces (as a test interface), in demonstration XDS infrastructures, or in staging environments.</td>
</tr>
</tbody>
</table>

Under Construction / Update

The following content is being updated.
| **Client Registry** | **OpenEMPI - Website** | **Open Enterprise Master Patient Index (OpenEMPI)** is an open source implementation of an Enterprise Master Patient (EMPI) which is a repository that maintains a registry of all patients across an enterprise. An EMPI provides many benefits including:

- Maintains a central registry of all patients and their demographics, assigning a unique identifier to each patient.
- Eliminates duplicate patient registration entries that result due to changes in patient demographics (patient moved to another location), data entry errors during patient registration, or missing demographic information.
- Provides record locator service by enabling physicians across the enterprise to identify which health care providers a patient has visited. |

| **Shared Health Record** | **Software Repository** | **Open Medical Record System (OpenMRS)** is a collaborative open-source project to develop software to support the delivery of health care in developing countries. OpenMRS provides an electronic medical record platform that allows a number of add-on modules to help OpenMRS function better for you. **NO LONGER ACTIVELY SUPPORTED - NEW REFERENCE TOOL INVESTIGATION UNDERWAY** |

| **Health Financing Information Management** | **openIMIS** | **openIMIS** is an adaptable open-source software tool for the digitalisation and efficient management of health financing workflows. Currently being used to manage a variety of health protection schemes, openIMIS offers seamless connections between beneficiaries, health service providers and payers. |

| **Health Management Information Systems** | **DHIS2 - GitHub** | **District Health Information Software (DHIS)** is a highly flexible, open-source health management information system and data warehouse. DHIS provides routine data, semi-permanent data (staffing, equipment, infrastructure, population estimates), survey/audit data, and certain types of case-based or patient-based data (for instance disease notification or patient satisfaction surveys). |

| **Facility Registry** | **ResourceMap - GitHub** | **Resource Map** is an open-source tool free to use in the cloud or locally installed, that helps you make better decisions by giving you insight into the location and distribution of your physical infrastructure. With Resource Map, you and your team can collaboratively record, track, and analyze resources at a glance using a live map. |

| **Health Worker Registry** | **iHRIS.org** | **Open Source Human Resource Information System (iHRIS)** is an open-source software that supplies health-sector leaders with information to track, manage, and plan the health workforce. iHRIS captures high-quality data on health worker numbers, skills, qualifications, locations, and more. |

| **Interoperability Service** | **Entity Matching Service** | The purpose of the **Entity Matching Service** is to enable matching in a single list of patients, health workers, facilities or other entities or to find potential matches between two lists of the same entities. |
### Interoperability Service

**OpenInfoMan**

GitHub

Docker Hub

OpenInfoMan is XQuery and RESTXQ based implementation of the Care Services Discovery (CSD) profile from IHE which implements the following actors and transactions:

- Info Manager: Find Matching Services (Ad-Hoc and Stored) [ITI-73]
- Query for Updated Services Transaction [ITI-74]
- Services Directory : Query for Updated Services Transaction [ITI-74]

OpenInfoMan has been developed as part of OpenHIE and is intended to be the OpenHIE engine behind the CSD compliant Health Worker Registry and to be incorporated in OpenHIM.

### Terminology Management Service

**Open Concept Lab**

OCL API - GitHub

OpenHIE Metadata Clearinghouse

OCL is an open-source terminology management system that operates in the cloud. A centrally hosted instance is hosted by the OpenHIE and OpenMRS communities and is available here: openconceptlab.org

### Product Catalog (aka Registry)

**Product Catalog Management Tool (PCMT), or simply Product Catalog**

productcatalog.io

GitLab

DockerHub

PCMT is an open-source product catalog management system that aims to connect product catalogs in order to show a clear journey from manufacturer to patient. It establishes master data that includes GS1 identifiers, global categories, and mappings to local identifiers. This enables end-to-end visibility, allows shipments to flow between systems, and helps supply chains perform.

### LMIS

**OpenLMIS**

openlmis.org

GitHub

DockerHub

OpenLMIS is a powerful, open source, cloud-based electronic logistics management information system (LMIS) purpose-built to manage health commodity supply chains.