Board Report: IHE ITI Domain

Sponsors:

Health Information Management Systems Society (HIMSS)

Leadership:

* Secretariat: Bell, Sarah [Sarah.Bell@himss.org](mailto:Sarah.Bell@himss.org)
* Board Representative: ITI Co-chairs for 2022
* Plan Cmte Co-chair: John Moehrke, ByLight Consulting
* Plan Cmte Co-chair: Steve Nichols, GE Healthcare
* Tech Cmte Co-chair: Luke Duncan, PATH
* Tech Cmte Co-chair: Oliver Egger, ahdis ag

Membership Rosters:

Planning and Technical Committee: <https://docs.google.com/spreadsheets/d/1lQ4dahBiJxRiLO7NBskS5pcJqfkdewfysgiHwq_Q7ew>

ITI Technical Google Group: 575 Members

ITI Planning Google Group: 234 Members

MHD Implementers Google Group: 161 members

IHE XDS Implementors Google Group: (unk)

Activity:

* Domain Scope: The IT Infrastructure Domain defines interoperable infrastructure for the secure sharing  of healthcare information independent of clinical domain. Interoperable infrastructure is necessary to  support common IT functions for a variety of use cases but is rarely visible to the end user. Components  supporting interoperable infrastructure may be embedded in applications but are often deployed as a  shared resource within an organization or a regional or national health information exchange.
* Current Cycle Timeline/Milestones: <http://wiki.ihe.net/index.php?title=IT_Infrastructure>
* Background: IHE ITI was established by HIMSS & RSNA in 2002 in order to address use cases that cross multiple clinical domains and rely on a common IT Infrastructure.

Most Significant Profiles:

| **Title** | **# passing @Cthon** | | **# product @Registry** | | **Description** | **External Significance** |
| --- | --- | --- | --- | --- | --- | --- |
| **2022** | **2021** | **2022** | **2021** |
| Audit Trail and Node Authentication (ATNA) | 32 | 29 | 67 | 138 | Establishes security measures which, together with the Security Policy and Procedures, provide patient information confidentiality, data integrity and user accountability | Endorsed by the European Commission  1,300 results Google Scholar search terms “IHE XDS”  Support / Alignment with   * MDR 17.4, 23.4 * NEMA Manufacturer Disclosure Statement for Medical Device Security MDS2 * DoD App Security STIGs |
| Cross-Enterprise Clinical Documents Share (XDS.b) | 20 | 23 | 43 | 51 | Provides a standards-based specification for managing the sharing of documents between any healthcare enterprise. | * Endorsed by the European Commission * Active Implementors Group * 2,360 results Google Scholar search terms “IHE XDS” (Enterprise and regional document sharing) |
| Cross Community Access (XCA) | 11 | 9 | 12 | 7 | Provides query and retrieve patient relevant medical data held by other communities. | Endorsed by the European Commission |
| Patient Demographics Query (PDQ) | 8 | 12 | 23 | 9 | An application query to a central patient information server to retrieve a patient’s demographic and visit information | Endorsed by the European Commission  Supports other profiles in enterprise and regional architectures by maintaining and reconciling the identity of a patient who may be identified in different ways by disparate systems |
| Patient Demographic Query HL7 V3 (PDQ V3) | 10 | 12 | 13 | 8 |
| Patient Demographics Query for Mobile (PDQm) | 7 | 13 | 0 | 3 |
| Patient Identifier Cross-referencing for MPI (PIX) | 11 | 11 | 31 | 14 | Supports the cross-referencing of patient identifiers from multiple Patient Identifier Domains |
| Patient Identifier Cross-Reference HL7 V3 (PIX V3) | 12 | 13 | 17 | 9 |
| Patient Identifier Cross-reference for Mobile (PIXm) | 6 | 12 | 0 | 3 |

# vendor @CThon is a total count of successful vendors from Connectathon-results.ihe.net   
# product @Registry is a count of registered Statements from Product-registry.ihe.net.

Significant Deployment Activity:

Profiles specified in projects and offered at Projectathons (from IHE Catalyst):

* e Health Suisse [Swiss EPR Projectathon](https://www.e-health-suisse.ch/fileadmin/user_upload/Dokumente/E/EPR-Projectathon-2022_Final-Report_e.pdf): ATNA, HPD, MHD, PDQV3, PIXm, PIXV3, XDS, XDS-I, XUA and SVS
* Canada Health Infoway [pan-Canadian Projectathon](https://infoscribe.infoway-inforoute.ca/download/attachments/149160307/Infoway%20Projectathon%20March%202022%20-%20Final%20Report.pdf): CT, ATNA, MHD, IUA, XDS and PIX
* epSOS /eHDSI/EXPAND: XCA, XCPD, ATNA, CT, XDS-SD, XDR
* Greek NeHIF: XDS.b, ATNA, CT, XUA
* Ireland: ATNA, CT, PDQ, XDS.b, BPPC
* Abrumet: ATNA, CT, MHD, XDS, XUA
* Pan Canadian: CT, ATNA, MHD

Connectathons and Other Events:

* The last Connectathon was in-person joint event for IHE North America & IHE Europe. The number of ITI profiles tested, and participating vendors was similar to the combined total of the 2021 NA & EU virtual Connectathons.

New Profiles:

* See: <https://github.com/IHE/IT-Infrastructure/projects/2>

| **Trial Implementations** | **Status** | **Date** |
| --- | --- | --- |
| Mobile Access to Health Documents (MHD) | Revised | 12/7/2022 |
| Secure Retrieve (SeR) | Revised | 10/24/2022 |
| Basic Audit Log Patterns (BALP) | Revised | 10/21/2022 |
| Sharing Valuesets, Codes, and Maps (SVCM) | Revised | 10/21/2022 |
| Mobile Care Services Discovery (mCSD) | Revised | 8/12/2022 |
| Patient Master Identity Registry (PMIR) | Revised | 8/9/2022 |
| Extensions to Document Metadata Subscription | Revised | 7/22/2022 |
| Internet User Authorization (IUA) | Revised | 6/17/2022 |
| Remove Metadata and Documents (RMD) | Revised | 6/17/2022 |
| XDS Metadata Update | Revised | 6/17/2022 |
| Mobile Health Document Sharing (MHDS) | Revised | 3/1/2022 |
| Patient Demographics Query for Mobile (PDQm) | Revised | 3/1/2022 |
| Patient Identifier Cross-reference for Mobile (PIXm) | Revised | 3/1/2022 |
| **White Papers** | **Status** | **Date** |
| Document Sharing Metadata | Publish | 3/1/2022 |
| **Public Comment** | **Status** | **Date** |
| Mobile Care Services Discovery (mCSD) Use Cases White Paper | Publish | 11/8/2022 |

In Development

* Scheduling for Mobile
* Document Sharing Across Network Topologies

FHIR Implementation Guides (http://www.fhir.org/guides/registry/)

* FormatCode
* MHD
* mCSD
* Basic Audit Event
* PMIR
* SVCM
* PIXm

Publication of Final Text Volumes to HTML

* Publication site: <https://profiles.ihe.net/>
* Staging / archive: https://github.com/IHE/publications

Trends:

* TBD

\*Last datapoint from Japan 2019

Summary of Future Plans:

* See: <https://github.com/IHE/IT-Infrastructure/projects/2>
* Evaluate Impact of HL7 Gender Harmony IG on ITI Profiles
* Alignment with TEFCA
* Additional FHIR IG conversions
* Other