IHE IT Infrastructure (ITI) Domain & Connectathon Snapshot
Today’s hosts

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Ready Computing
IT Planning co-chair
Technical Committee member
Agenda

What we’ll cover:

• IT Infrastructure Overview
  – ITI’s families of profiles
  – What’s new this year?
• How to participate in IHE
  – IHE International Membership
  – Planning & Technical Committees
• High-level Connectathon overview
• Q&A

Not covered today:

• Details about other domains
• Details about North American Connectathon 2018 and HIMSS Interoperability Showcase Webinar
• Other webinars are coming! See http://www.ihe.net/Webinars/
IT Infrastructure Domain Focus

- IT Infrastructure concentrates on:
  - Document Sharing
  - Security and Privacy
  - Provider and Patient Identity Services
  - REST-based exchange
  - Workflow Management
  - Other Infrastructure and whitepapers
Document Sharing

Profiles for sharing documents within a community:
- XDS.b – Cross-Enterprise Document Sharing
- XDR – Cross-Enterprise Reliable Interchange
- XDM – Cross-Enterprise sharing Exchange Media
- XDS-SD – Scanned Documents
- MHD – Mobile access to Health Documents

Profiles for sharing documents between communities:
- XCA – Cross-Community Document Sharing
- XCF – Cross Community Fetch
- XCDR - Cross-Community Document Reliable Interchange

Enhancements for document sharing:
- MPQ – Multi-patient Query
- DSUB – Document Metadata Subscription
- Delayed Document Assembly
- Metadata Update
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NEW for 2017
• RMD – Remove Metadata and Document
Provider and Patient Identity Services

**Patient:**
- PDQ, PDQ v3, PDQm – Patient Demographic Query
- PIX, PIX v3, PIXm – Patient Identifier Cross-Reference
- PAM – Patient Administration
- PLT – Patient Location Tracking
- XCPD – Cross Community Patient Discovery
- XPID – XDS Affinity Domain Patient ID Change Management

**Provider:**
- HPD – Healthcare Provider Directory, including Federation
- CSD – Care Service Discovery
- PWP – Personnel White Pages
Security & Privacy

• ATNA – Audit Trail and Node Authentication
• BPPC – Basic Patient Privacy Consents
• XUA – Cross-Enterprise User Assertion
• EUA – Enterprise User Authentication
• DEN – Document Encryption
• SeR - Secure Retrieve
• DSG – Document Digital Signature

New in 2017

APPC – Advanced Patient Privacy Consent
REST-based Exchange

- IUA – Internet User Authorization
- RID – Retrieve Information for Display

HL7 FHIR® DSTU3 based:
- PIXm - Patient Identifier Cross-Reference for Mobile
- mACM - Mobile Alert Communication Management
- RESTful query for ATNA
- MHD – Mobile Access to Health Documents
- PDQm – Patient Demographic Query for Mobile
Workflow Management

- XDW – Cross Enterprise Document Workflow
- RFD – Retrieve Form for Data Capture

Other Infrastructure

- CT – Consistent Time (NTP)
- PSA – Patient Synchronized Applications (CCOW)
- SVS – Sharing Value Sets
- Other handbooks & whitepapers available on http://ihe.net/technical_frameworks/#IT

For a quick tutorial on how to read and navigate IHE technical frameworks, watch the first webinar on this page: https://gazelle.ihe.net/training
Summary - What’s New This year

• Coming in Sep 2017:
  • Mobile Care Services Discovery (mCSD)
  • Non-Patient File Sharing (NPFSm)
  • Mobile Cross-Enterprise Document Data Element Extraction (mXDE)
  • Remove Metadata and Documents (RMD)

• Updates to HL7 FHIR® DSTU3 based profiles:
  • Appendix Z on HL7 FHIR
  • Mobile Access to Health Documents (MHD)
  • Patient Identifier Cross-reference for Mobile (PIXm)
  • Patient Demographic Query for Mobile (PDQm)
ITI wants YOU!
ITI is Global

Sponsors:

• Health Information Management Systems Society (HIMSS) [www.himss.org](http://www.himss.org)
• ASIP Santé- [http://esante.gouv.fr](http://esante.gouv.fr)

Committee participation includes:

• Austria, Belgium, Canada, France, Germany, Italy, Japan, South Africa, United States, Netherlands
Install interoperable products in clinical settings worldwide.

IHE Improves Safety, Quality and Efficiency in Clinical Settings

Profile Selection by Committees

IHE Call for Proposals Opens

months 1-5

IHE Technical Framework Developed

months 6-13

Published For Public Comment

months 14-18

Demonstrations, eg

Test at IHE Connectathons

Publish in IHE’s Product Registry

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Demonstrations, eg

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Publish in IHE’s Product Registry
<table>
<thead>
<tr>
<th>IHE Profile Cycle Stages</th>
<th>Open Date</th>
<th>Close Date</th>
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<tr>
<td><strong>Call for Proposals</strong></td>
<td>Aug 1, 2017</td>
<td>Sept 22, 2017</td>
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<td><strong>Profile Selection</strong></td>
<td>Planning Cmte Oct 16-17 2017</td>
<td>Technical Cmte Nov 15-16 2017</td>
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<td><strong>IHE Profiles drafted in IHE Technical Committee</strong></td>
<td>Dec 2017</td>
<td>May 2017</td>
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<td><strong>Public Comment</strong></td>
<td>May 2018</td>
<td>End June, 2018</td>
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<td><strong>Public Comment Resolution; Trial Implementation Published</strong></td>
<td>July 2018</td>
<td>September 2018</td>
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<td><strong>IHE N.A. Connectathon Registration</strong></td>
<td>Sept 6, 2017</td>
<td>Oct 6, 2017</td>
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<td><strong>IHE N.A. Connectathon Cleveland, Ohio</strong></td>
<td>Jan 15, 2018</td>
<td>Jan 19, 2018</td>
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<tr>
<td><strong>IHE European Connectathon The Hague, the Netherlands</strong></td>
<td>April 16, 2018</td>
<td>April 20, 2018</td>
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How to Participate?

- **Teleconferences**: Provide active feedback to the lead authors of each work item as they are developed. Each work item has regularly scheduled calls.
- **Email Discussions**: Occasional email discussions on the technical committee and working group email mail lists related to technical issues.
- **Face-to-Face Meetings**: Committees meet occasionally throughout the year (travel is optional, but highly beneficial) where the focused work on milestones is completed. Meeting schedules and dates vary by domain.
- **Public Comment**: Provide comments on work items when they are released for public comment, and/or internal committee review.

- **Apply for IHE International Organizational Membership**
  - Visit: [http://ihe.net/Join/](http://ihe.net/Join/)
  - [Review IHE’s 400+ Organizational Members](http://ihe.net/Join/)
Benefits of Participation

- **Support the development of IHE-based products** in your company. Ensure your organization’s products and implementations are reflected in the development of new profiles and new changes made to the existing Technical Framework.

- **Establish subject matter expertise** in IHE profiles and content and become an asset to your business and industry.

- **Build name recognition** for you and your company; active IHE members are highly visible and well-known in the Healthcare IT world.

- **Provide leadership** to develop well written IHE profiles that benefit the broader IHE and Health IT community.
Testing & Demonstrating IHE capabilities

Two Related events...

1. **Annual IHE Connectathon**
   Week-long in-person testing event in NA and Europe
   Focus on *peer-to-peer interoperability testing* & exercising IHE profiles and transactions

2. **HIMSS Interoperability Showcase**
   Opportunity to demonstrate your IHE capabilities
   Successful completion of Connectathon testing is a *prerequisite* to demonstrating IHE profiles in the Showcase

3. **Ehealth Week (Europe)**
   Opportunity to demonstrate your IHE capabilities
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**HIMSS Showcase Rqmts:**
- Registration
- Contract
- Fee payment
- Use case planning
- Internet testing

**Connectathon Rqmts:**
- Registration
- Contract
- Fee payment
- Pre-Connectathon tests with tools
- Configuration sharing
- System preparation
- Connectathon week testing with partners
Getting started with IHE Connectathons: Where and when in 2018?

**North American Connectathon 2018**  January 15 - 19, 2018
- January 15 - 19, 2018
- Cleveland Convention Center
- Registration is open Sep 6 – Oct 6, 2017
- See: [http://iheusa.org/connectathon.aspx](http://iheusa.org/connectathon.aspx)

**HIMSS Interoperability Showcase 2018**
- Feb 19 – 23, 2017
- Las Vegas, Nevada

**European Connectathon 2018**
- April 16-18, 2018
- The Hague, the Netherlands
- Registration opens in fall
- See: [http://ihe-europe.net/connectathon/connectathon](http://ihe-europe.net/connectathon/connectathon)
Getting started with the IHE Connectathons

Let’s fast-forward to January 2018…
General Process During Connectathon

• You are assigned a set of required tests for each IHE profile/actor you support.

• You execute each test with peer systems; you choose your partners; this is an iterative process throughout the week: the “three test” rule

• Connectathon Monitors examine individual test results (domain/clinical experts, not vendors)

• Domain Project Managers (eg Lynn) evaluates these results against the “success” criteria and assign passing grades

Cooperative efforts to debug problems and work towards success

Real-world testing in an environment where it’s safe to fail

Opportunity to find problems in products and in the profiles
Setting your Expectations

• Initial failures can be fixed and retested later in the week

• You set priorities & manage your time. We do not guarantee you will complete your tests.
When you finish…

• IHE publishes which *actor/integration profile pairs* each company has successfully tested
• We do not publish failures
• This is not government testing or certification
• You have the benefits of an extraordinary testing opportunity
• You have a “ticket” to participate in IHE showcase demonstrations
**What do we want to do?**
- Match product capabilities to IHE profiles
- Consider demo use cases

**Can we do this?**
- Goals
- People
- Budget
- Commitment

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**IHE Connectathon Timeline**

**Development**
- Pre- C’thon tests

**Preparation**
- Config entry
- Finish advanced prep

**Connectathon!**

**Interoperability Showcase**
What do we want to do?

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Can we do this?

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You are here

...to get here in January...
For Connectathon, you need to register for **actors** in IHE profiles

- Each profile/actor pair translates into a set of requirements for your product, and a set of tests at the connectathon

**What influences that selection?**

- Existing implementation
- Future product plans
- Showcase considerations
Great, but how do I map my product’s capabilities to IHE profiles?
Conformity assessment

North America cert - Consert by HIMSS
Europe certification - IHE Conformity Assessment Scheme (CAS)
Before you register…

Read IHE Integration Profiles
• Do they match your existing product or plans?

Consult with HIMSS Showcase managers:
• What product capabilities do you want to highlight/demonstrate?
• What use cases will be part of the Interoperability Showcase demonstration?

Ask questions of the Connectathon technical managers:
• We do not know your product
• We *do* know the IHE Profiles and can help map your product capabilities to IHE profiles
• June/July/August is a good time to set up a call with us
Contact info

IT Infrastructure Domain activities:

Planning Committee
- Daniel Berezeanu -- daniel.berezeanu@readycomputing.com
- Eric Heflin – ericheflin@gmail.com

Technical Committee
- Elliot Silver – Elliot.Silver@mckesson.com
- Mauro Zanardini – mzanardini@consorzioarsenal.it

Connectathon & Showcase:

Connectathon Technical Support: registration, preparation, test tools, schedule
- Steve Moore – overall Connectathon technical management– moores@mir.wustl.edu
- Lynn Felhofer – ITI Domain Testing - felhofer.lynn@gmail.com

Connectathon Logistics support: fees, contracts, invoices, hotel info, badges…
- IHE USA staff – connectathon@ihe.net

HIMSS Interoperability Showcase
- Bronwen Huron- bpitchford@himss.org
Web Resources

- **IHE Technical Frameworks**
  - [www.ihe.net/Technical_Framework/index.cfm#IT](http://www.ihe.net/Technical_Framework/index.cfm#IT)

- **ITI profile summaries**

- **Google Groups**
  - ITI Planning Committee: [https://groups.google.com/d/forum/itiplan](https://groups.google.com/d/forum/itiplan)
  - ITI Technical Committee: [https://groups.google.com/d/forum/ititech](https://groups.google.com/d/forum/ititech)

- **Connectathon Info:**
  - Europe - [http://www.ihe-europe.net/connectathon/connectathon](http://www.ihe-europe.net/connectathon/connectathon)
  - Connectathon Results Database - [http://connectathon-results.ihe.net/](http://connectathon-results.ihe.net/)

- **IHE Product Registry** (for providers & purchasers – to find products with IHE capabilities)
  - [http://product-registry.ihe.net/PR/home.seam](http://product-registry.ihe.net/PR/home.seam)

- **Learn More**
  - IHE Int’l 2016 Webinar Series - [http://ihe.net/Webinars/](http://ihe.net/Webinars/)
Questions?

Thank you for attending!