Connectathons

HL7 FHIR CONNECTATHONS
The HL7 FHIR community is an open, welcoming community that respects all members.
The HL7 FHIR project is committed to providing a community that welcomes new members and provides a pathway to education about FHIR and full integration into the community.
Connectathons are a key part of our community engagement!

HL7 FHIR Connectathon 28

What is a Connectathon?
An HL7 FHIR Connectathon is an event that is centered on developing the HL7 FHIR Specification including resources, profiles and implementation guides. The purpose of a Connectathon is to prove that the specification is complete and facilitate FHIR implementation guide maturity.

The HL7 FHIR Connectathon Approach
The HL7 FHIR Community Vision is to enable Health Interoperability through the use of FHIR and use that to deliver improvements in healthcare provision throughout the world. HL7 FHIR Connectathon participants come together several times per year to work alongside vendor peers, healthcare providers and administrators, and the individuals and organizations that actually wrote the HL7 FHIR specification. Test tools like Touchstone.com and others are made available for developers to rapidly learn to implement the standard and validate their conformance to the specification and mature implementation guides. The HL7 FHIR Community Vision is highly reliant on the building a specification for healthcare APIs that is highly reusable. The fact that an implementation guide can be re-used at many deployments drives down the time and costs and drives up quality of health data for all.

FHIR Resources and implementation guides that are early in their maturity are more open for debate. When multiple stakeholders come together and find that their code does not interoperate, either one of them did not interpret the specification or IG correctly or it could mean that the FHIR documentation was not complete enough. Thus the FHIR specification is often improved during Connectathon and depends on transparency in the work that happens during these events.

What happens at Connectathon stays at Connectathon!
Connectathons are a safe place for everyone to fail forward. Connectathon testing with peer organizations is good for developers and for the HL7 FHIR standard. Connectathons offer developers a better place to fail than at a customer site. Customers expect to use products, not participate in debugging. By allowing product vendors to practice interoperability in a Connectathon setting, vendors can come to resolution and inform the specification evolution so that true interoperability can be enabled.

Out of Cycle HL7 FHIR Connectathon Criteria for Approval by the FHIR Management Group
- Needs to be sponsored by HL7 International or an affiliate and approved by FMG.
- Must submit names of the coordinator and technical lead for the Connectathon
- Need to have at least one person familiar with FHIR
Persons should have participated in a prior Connectathon, having an implementation, etc.
Remains a judgment call from FMG for now
Identify what version of the spec on which they will draw
Need to assert if they have requirements for a frozen version of the spec and what other requirements they have
Describe the scenarios to execute
Comments from experience will be DSTU comments.

**Participate as a Track Lead:**

Anyone is welcome to submit a Track Proposal for an HL7 FHIR Connectathon. HL7 International hosts three main Connectathons annually typically held the weekend prior to the Working Group Meeting; however, the virtual format has slightly altered that pattern. Track Proposals are generally accepted from 12 weeks prior to 6 weeks prior to the Connectathon and are reviewed by the FHIR Management Group. To find the track proposal deadline and the associated track template, review and watch the Connectathon Event Page for the Track Proposal Template and specific event details including Track Lead Orientation.

To Get Started Review the following:

- Track Lead Resources
- Track Lead Responsibilities
- Connectathon Track Process

**Join the Connectathon as a Participant to test the HL7 FHIR Specification or an Implementation Guide:**

Interested in attending a Connectathon? Be sure to register prior to the event! Registration typically opens about 12 weeks prior to the event, and more information about registration and track participation is available on the specific Connectathon Event Page below:

**Designers**

- Resource Proposals
- Resource Types
- Resource Authoring
- FHIR Spreadsheet Authoring
- Guide to Designing Resources
- Managing Overlap Between Resources
- Resource Considerations
- FHIR Build Process
- HL7 Process for Publishing a FHIR IG
- FHIR Implementation Guide Process Flow
- IG Proposals
- Profile Proposals
- FHIR Profile and IG Balloting
- FHIR Implementation Guides - Planned Balloting/Publishing
- FHIR Implementation Guide Publishing Requirements
- HL7 QA process for FHIR IGs
- IG Templates
- Implementation Guide Parameters
- IG Publisher Documentation
- FHIR Liquid Profile
- FHIR IG PackageList doco
- NPM Package Specification
- FHIR Package Cache
- FHIR Profile Authoring
- FHIR Spreadsheet Profile Authoring
- FHIR Tooling Ecosystem
- FHIR Tools Registry
- Profile Tooling
- GIT Conflict Resolution Documentation
- SMART Web Messaging
- FHIR Package Registry User Documentation
- FHIR IG QA Monitoring
- FHIR Core FMM Support
- Process for Publishing a FHIR Implementation Guide (for non-HL7 IGs)
Implementers

- Blogs
- Change Requests
- Chat.fhir.org Community Expectations
- Clinicians on FHIR
- Conformance QA Criteria
- Digital Signatures
- Endpoint directory implementations
- FHIR Cheatsheets
- FHIR Code of Conduct
- FHIR Community Process
- FHIR Intellectual Property Rules
- FHIR Maturity Model
- FHIR Rules for Asking Questions
- Getting Involved
- IGs from other Organizations
- Implementer Support
- Intervention Compatibility
- Mailing List Instructions
- Migrating OIDs to FHIR
- Open Source Implementations
- Posting the FHIR specification on hl7.org
- Public FHIR Validation Services
- Public Test Servers
- R2-R3 Transformations
- R3-R4 Transformations
- Registering Code Systems
- SMART on FHIR server implementations
- Testing Platforms
- Using the FHIR Mapping Language
- Using the FHIR Validator

Individuals Interested in FHIR IG Development

Location: Atlanta Marriott Marquis hotel (same as the HL7 Working Group Meeting occurring September 14-20)

Date of Training Workshops: September 11-13 2019

Training will occur 1-5pm on Wednesday and 9-5pm on Thursday and Friday

The FHIR Implementation Guide (IG) Workshop is for a series of three restricted, limited space workshops targeting IG publishers and new ballot reviewers. All attendees will be nominated in advance by the FHIR Core team.

The FHIR Core Team hasn’t identified a list of invitees yet, but if you’d like to suggest names to be included to the waiting list, just let us know and we’ll inform you when more details are available.

Entries below should select the appropriate workshops desired:

- Workshop 1: Implementation Guide Creation (Wednesday afternoon and all day Thursday)
- Workshop 2: Terminology considerations (Friday morning)
- Workshop 3: Implementation Guide Ballot Review Best Practices (Friday afternoon)

* Indicates application email received by Wayne Kubick

<table>
<thead>
<tr>
<th>Name</th>
<th>Organization</th>
<th>Email</th>
<th>Workshop 1: IG Creation</th>
<th>Workshop 2: Terminology Considerations</th>
<th>Workshop 3: IG Ballot Review Best Practices</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>Linda Michaels</td>
<td>Optum</td>
<td><a href="mailto:linda.michaelsen@optum.com">linda.michaelsen@optum.com</a></td>
<td>X</td>
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<td>X</td>
<td></td>
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<tr>
<td>Lisa Nelson</td>
<td>MaxMD</td>
<td><a href="mailto:lnelson@maxmd.com">lnelson@maxmd.com</a></td>
<td>X</td>
<td>X</td>
<td>X</td>
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</tbody>
</table>

Email from Linda (to Wayne Kubick):
Yes, please put me on this list. I am copying in my Da Vinci team to promote me for the workshop – I am a co-lead on several workgroups and would like to be able to at least help in this process. From a scheduling perspective, when do you think it will be held? Linda

Recommended by Wayne. Lisa has a candidate who is willing to learn and offer significant in kind contributions for creation and review.
<table>
<thead>
<tr>
<th>Name</th>
<th>Company/Role</th>
<th>Email</th>
<th>Recommended By</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cheng Lui*</td>
<td>MaxMD</td>
<td>benjami ni@redo xengine.com</td>
<td>Recommended by Lisa</td>
</tr>
<tr>
<td>Benjami n Piessner</td>
<td>AllScripts</td>
<td><a href="mailto:george.dixon@allscripts.com">george.dixon@allscripts.com</a></td>
<td>Recommended by Sean McIlnvenna</td>
</tr>
<tr>
<td>George Dixon</td>
<td>AllScripts</td>
<td><a href="mailto:emma.jones@allscripts.com">emma.jones@allscripts.com</a></td>
<td>Recommended by Sarah Gaunt</td>
</tr>
<tr>
<td>John Hatem</td>
<td>Cerner</td>
<td><a href="mailto:jihatem@hotmail.com">jihatem@hotmail.com</a></td>
<td>Recommended by Melva Peters</td>
</tr>
<tr>
<td>Andrew Statler</td>
<td>Cerner</td>
<td><a href="mailto:Andrew.Statler@cerner.com">Andrew.Statler@cerner.com</a></td>
<td>Recommended by Sean McIlnvenna</td>
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<tr>
<td>Reuben Daniels</td>
<td></td>
<td><a href="mailto:reubenaniels@gmail.com">reubenaniels@gmail.com</a></td>
<td>Recommended by Sarah Gaunt</td>
</tr>
<tr>
<td>Micheal Lawley</td>
<td>Samvit Solutions</td>
<td><a href="mailto:Michael.Lawley@csiro.au">Michael.Lawley@csiro.au</a></td>
<td>Recommended by Sarah Gaunt</td>
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<tr>
<td>Smita Hastack</td>
<td></td>
<td><a href="mailto:shastak@samvit-solutions.com">shastak@samvit-solutions.com</a></td>
<td>Recommended by Lloyd McKenzie</td>
</tr>
<tr>
<td>Robinette Renner</td>
<td></td>
<td><a href="mailto:raley@nmdp.org">raley@nmdp.org</a></td>
<td>Recommended by Lloyd McKenzie</td>
</tr>
<tr>
<td>Rik Smithies</td>
<td></td>
<td>rik@smit hies.net</td>
<td>Recommended by Lloyd McKenzie</td>
</tr>
<tr>
<td>Linda Michaels en</td>
<td>Optum</td>
<td><a href="mailto:linda.michaels.en@optum.com">linda.michaels.en@optum.com</a></td>
<td>Recommended by Bryn Rhodes (Duplicate of Row 1)</td>
</tr>
<tr>
<td>Patrick Werner</td>
<td>MOLIT Institut</td>
<td><a href="mailto:pw@molt.it.eu">pw@molt.it.eu</a></td>
<td></td>
</tr>
<tr>
<td>José Costa Teixeira</td>
<td></td>
<td><a href="mailto:jose.a.teixeira@gmail.com">jose.a.teixeira@gmail.com</a></td>
<td></td>
</tr>
<tr>
<td>John Moehrke*</td>
<td></td>
<td>johnmoe hrke@tg mail.com</td>
<td>Recommended by José</td>
</tr>
<tr>
<td>Oliver Egger*</td>
<td>ahdis / hl7 switzerland</td>
<td></td>
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</tr>
<tr>
<td>Christine (Christi) Denney</td>
<td>Optum</td>
<td><a href="mailto:linda.michaels.en@optum.com">linda.michaels.en@optum.com</a></td>
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<tr>
<td>Craig Newman</td>
<td>Altarum</td>
<td><a href="mailto:Craig.Newman@altarum.org">Craig.Newman@altarum.org</a></td>
<td>Is working on Reference implementations and would like to attend (Recommended by Dave Pyke)</td>
</tr>
<tr>
<td>Becky Angeles</td>
<td>Carradora</td>
<td><a href="mailto:becky.angeles@carradora.com">becky.angeles@carradora.com</a></td>
<td>Was the originator of the eLTSS project and would like to attend (Recommended by Dave Pyke)</td>
</tr>
</tbody>
</table>

CDISC has a couple of people they'd like to send - need named individuals; and CDISC hasn't been participating in IG creation or ballot reviews.
FHIR IG Review

The following checklist can be used as a template for performing an Implementation Guide review – it guides the overall process for the review.

This slide deck gives details for reviewing FHIR IGs: 2019-09 FHIR IG Review.pptx

To use this checklist, copy the content to a Word Document for each IG Review.

Step #1: Orientation / Conceptual

- Is the purpose of the IG clearly explained?
- Have roles and use cases been defined?
- Does the IG have the appropriate dependencies? Is it reinventing existing content?
- Do the artifacts fit appropriately into the defined scope?
- Check stated Realm
- Check kind of IG – what expectations arise?

Step #2: Orientation / Technical

- Read note to balloters (if present)
- Check history notes
- Check qa.html
Step #3: Orientation / Approach

- Check kinds of exchanges
- APIs
- Document
- Messaging (or Check messaging protocol)
- Make list of kinds of information exchanged
- Check consistent with realm core expectations
- Make list of actors described in system
- Characterize as Producer | Consumer | Repository

Step #4: Capability Statement

- Check resources exposed. For each resource
  - Check Interactions
  - Check Search Parameters
  - Modifiers
  - Chaining
  - Combinations
  - Conformance expectations clear
- Check System Profile
- Check Use case Profiles
- Check Global Profiles

Step #5: Profiles

Check resources/profiles exposed. For each resource

- Check Text Summary – human to human
- Check Differential as summary (consistent with text summary?)
- Check what other related profiles exist in other IGs
- For each element in the differential:
  - Check definitions – changed? Needs to be changed?
  - Check any mappings added
  - Check cardinality - elements should be 0..0 only if the inclusion of that element would be an error
  - Check must support (and check it’s meaning is defined)
  - Check Terminology Binding – extensible and preferred binding pose challenges for searching
- For each sliced element (including extensions), assure the generic short and definition have been replaced with real definitions
- Any orphan profiles?

Step #6: Extensions

Any extensions? For each extension:

- Is there a standard extension that could be used?
- Has the context of use been set (associating the extension with the type of resource it can be used with)
- If a simple extension, has the data type of the value been appropriately constrained? Has the extension's extension been set to 0..0?
- Has the short and definition of the extension been set? (These are appear in the profile, so they are important)

Step #7: Value Sets / Code Systems

- Check Copyright (externally sourced content)
- Check Versioning
- For code systems: something that needed to be defined?

Step #8: Examples

- Check that all examples validate against profiles
- Check that examples have all information required for the use case
- Where there are slices, examples should populate every slice. Check that the QA report to see if the slices were uniquely distinguishable.

Step #9: Specific Requirements

- For each:
  - Defined / described?
  - Requirements described?
- Do you agree?
  - Security
  - Error Handling
    - Specifying correct behaviour for operational failures
    - Mechanisms for handling erroneous data
  - Audit / Provenance
  - Consent / Privacy
  - Test Cases / Conformance testing support
  - Safety Issues (check)

**Migration of FHIR from Wiki**

<table>
<thead>
<tr>
<th>Name of Page</th>
<th>Link on Wiki</th>
<th>Migrated to Confluence</th>
<th>Comments</th>
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<tr>
<td></td>
<td><a href="https://wiki.hl7.org/FHIR_Package_Cache">https://wiki.hl7.org/FHIR_Package_Cache</a></td>
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**Orphaned pages in this Confluence Space:**

- Questions for Further Discussion

**Log of work on migration of FHIR space**

Joshua Procious added a comment - 2019-10-29 10:04
The reference to the FHIR Governance Board on this page: https://confluence.hl7.org/display/FHIR/Governance+Process is to the wiki as it hasn't been migrated to Confluence.

Two pages in the Confluence FHIR space “Connectathon 13” and “Connectathon 14” were deleted and NOT migrated due to them being included in the archive page listing “Previous Connectathons”

I have create the page FHIR Build Process as it was not in Confluence and seemed to be the primary link in multiple documents. I created the page FHIR Profile Authoring and migrated from the referenced pages on the wiki. I have created the page FHIR Profile and IG Balloting from the referenced pages on the wiki. I have created the page FHIR Implementation Guide Authoring from the referenced pages on the wiki.

What is the guidance for how FHIR wants to handle the current Resource proposals on the WIKI? Page on confluence here: https://confluence.hl7.org/display/FHIR/Resource+Proposals

Created page FHIR Package cache per requested migrated pages table: https://confluence.hl7.org/display/FHIR/FHIR+Package+Cache
Create page FHIR IG PackageList doco per requested migrated pages table: https://confluence.hl7.org/display/FHIR/FHIR+IG+PackageList+doco

FHIR Profile Considerations page on wiki is blank https://wiki.hl7.org/FHIR_Profile_Considerations
This link was intentionally left out of the FHIR Profile Proposal Template.

FHIR IG Proposal template was overwitten in the wiki with data so no instructions were present. https://wiki.hl7.org/Template:FHIR_IG_Proposal
The respective template in Confluence was populated with standard fields and general instructions but no guiding instructions per field.

I have create the IG Proposals and Profile Proposals pages in confluence.
Combined with the Resource proposals pages, they jointly use templates I've created in Confluence based on wiki templates. Converting the blue text to cloaks in confluence and then listeners by label.

<table>
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<tr>
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<tr>
<td>1. Published Name of the Standard for which request is being made</td>
<td>FHIR Bulk Data Access Implementation Guide</td>
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<td>2. Standards Material/Document</td>
<td>Errata STU Extension</td>
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<tr>
<td>3. Date of Request</td>
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<td>5. Reason for extension, timeline, and actions</td>
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<td>6. Original Publication Date</td>
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<td>7. End date of the current STU period</td>
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<td>8. Length of the requested extension</td>
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<td>9. Review Process</td>
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<td>10. HL7 Work Group making this request and date</td>
<td>FHIR-I approved publication on 7/13 and additional publication error triggered secondary approval on 10/12 (<a href="https://confluence.hl7.org/display/FHIRI/FHIR+Infrastructure+Minutes+CC+20201012">https://confluence.hl7.org/display/FHIRI/FHIR+Infrastructure+Minutes+CC+20201012</a>)</td>
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<td>12a. Management Group Date of Approval</td>
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<td>13. URL of approval minutes</td>
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<td>14. Is the artifact ready for final publication?</td>
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<td>15. If not ready, please describe remaining steps.</td>
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<td>16. Tool name used to produce the machine processable artifacts in the IG</td>
<td>FHIR IG Publisher</td>
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<tr>
<td>17. The name of the “IG artifact” within the context of the above mentioned tool.</td>
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<td>18. Balloted Name of the standard for which request is being made</td>
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<td>19. Requested name for published standard</td>
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<td>24. Results of that ballot (following reconciliation activities):</td>
<td>(not needed for errata, STU extension, or unballoted STU update)</td>
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<td>25.</td>
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<td>26.</td>
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<td>URL of publication material/SVN repository</td>
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<td>38.</td>
<td>Date Product Brief Reviewed</td>
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<td>49.</td>
<td>Description</td>
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</table>
These are categories of potential users, implementers, or other interested parties such as those that are indicated on the Project Scope Statement under “Stakeholders/Vendors/Providers”. Select those that are applicable, or suggest others:

<p>| | |</p>
<table>
<thead>
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How-to articles

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</thead>
<tbody>
<tr>
<td>Editing the Core FHIR specification with the Forge graphical data modeling user interface</td>
<td>Ward Weistra</td>
<td>Jan 28, 2021</td>
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<tr>
<td>Protocols for Clinical Registry Extraction and Data Submission</td>
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</tbody>
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Committee Approval Date: June 24, 2021

2021-06-24 CIC Conference Call

Publishing Lead:

Keith W. Boone
David Pyke
Contributing or Reviewing Work Groups:
CIC, Public Health

FHIR Development Project Insight ID:
Pending

Scope of coverage:
The IG will create a process and flow for profiling registry needs and allow the data needs to be automatically extracted from multiple sources and combined into a registry submission. This IG will profile the definitional resources needed to collect data and construct a registry submission, it will not include clinical resources that would be included in a registration.

Content location:
Currently: https://github.com/AudaciousInquiry/CREDS
Will be moved to the HL7 repository once ID are assigned and site is available.

Proposed IG Title:
Protocols for Clinical Registry Extraction and Data Submission (pCREDS)

Proposed IG realm and code:
us/registry-protocols

FHIR Core version(s):
R4

Maintenance Plan:
CRISP are aware of the needs for on-going maintenance. CRISP is the primary on the ONC LEAP grant and is approaching ONC for information on maintenance and upgrades on the IG past the grant end date.

Short Description:
This guide profiles how a registry says what needs to be sent, and how a healthcare provider organization can use that to automate the collection and formatting the data into a submission, conforming to registry or FHIR implementation guide defined profiles and protocols.
Long Description:

This Implementation Guide simplifies the efforts of healthcare provider organizations to collect data needed for registry submissions, by making it easier for registries to supply providers with specific information that providers need to prepare a registry submission. The Guide shows how to collect and transform the data for submission via FHIR Implementation Guides such as MedMorph.

This guide profiles how a registry says what needs to be sent, and how a healthcare provider organization can use that profiling to automate the collection and formatting the data for submission.

This guide describes the steps to define the data requirements registry submission, relying on existing FHIR resources, profiles, and implementation guides and describe the process for collection and compilation via FHIR APIs and use other systems for validate and refinement as necessary.

Involved parties:

Audacious Inquiry, CRISP, ACC, ONC (LEAP Grant)

Expected implementations:

Chesapeake Regional Information System for Our Patients (CRISP), American College of Cardiology (ACC), Ai

Content sources:

We expect to reference and reuse existing content available from Common Clinical Registry Framework (CCRF), US Core, Cancer Registry IG, MedMorph, mCode, Breast Imaging, eCR, et cetera, where applicable to demonstrate how systems implementing this IG can support those efforts.

Example Scenarios:

Creation of Registry requirements in ConceptMap and/or StructureMap and/or GraphDefinition resources, conversion of the resources to queries to FHIR APIs (and possibly non FHIR), compilation into a Bundle and submission to the requesting registry

IG Relationships:

USCore, MedMorph (mutual), possible others as above.

Timelines:

September 2021 HL7 Connectathon (TBD)
January 2022 HL7 Connectathon
January 2022 STU Ballot
May 2022 STU Publication (TBD)

FMG Notes

The bulk of the content for this page has yet to be migrated from http://wiki.hl7.org/index.php?title=FHIR
Popular Topics

- connectathon
- fhir-resource-proposal
- fhir-ig-proposal
- fhir-resource-proposal-approved
- fhir-ig-proposal-pending
- fhir-ig-proposal-approved
- fhir-resource-proposal-pending
- fhir-profile-proposal
- fhir-profile-proposal-pending
- drawio