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
- Interopversion 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 on</td>
<td>Optum</td>
<td><a href="mailto:linda.michaels.en@optum.com">linda.michaels.en@optum.com</a></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>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</td>
</tr>
<tr>
<td>Lisa Nelson*</td>
<td>MaxMD</td>
<td><a href="mailto:lnelson@maxmd.md">lnelson@maxmd.md</a></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Recommended by Wayne. Lisa has a candidate who is willing to learn and offer significant in kind contributions for creation and review.</td>
</tr>
<tr>
<td>Name</td>
<td>Organization</td>
<td>Email Address</td>
<td>Recommended by</td>
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<tr>
<td>Cheng Lui*</td>
<td>MaxMD</td>
<td>benjami ni@redo xengine.com</td>
<td>Lisa</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Benjamin Flessner</td>
<td>AllScripts</td>
<td><a href="mailto:george.dixon@allscripts.com">george.dixon@allscripts.com</a></td>
<td>Sean McIlvenna</td>
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<tr>
<td>George Dixon</td>
<td></td>
<td></td>
<td>Sarah Gaunt</td>
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<tr>
<td>Emma Jones</td>
<td>AllScripts</td>
<td>emma. <a href="mailto:jones@allscripts.com">jones@allscripts.com</a></td>
<td>Sarah Gaunt</td>
<td></td>
<td></td>
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<tr>
<td>John Hatem</td>
<td>Cerner</td>
<td><a href="mailto:jihatem@hotmail.com">jihatem@hotmail.com</a></td>
<td>Melva Peters</td>
<td></td>
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</tr>
<tr>
<td>Andrew Statler</td>
<td>Cerner</td>
<td>Andrew. <a href="mailto:Statler@cerner.com">Statler@cerner.com</a></td>
<td>Sean McIlvenna</td>
<td></td>
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<tr>
<td>Reuben Daniels</td>
<td></td>
<td><a href="mailto:reubendaniels@gmail.com">reubendaniels@gmail.com</a></td>
<td>Sarah Gaunt</td>
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<tr>
<td>Michele Lawley</td>
<td></td>
<td>Michael. <a href="mailto:Lawley@csiro.au">Lawley@csiro.au</a></td>
<td>Sarah Gaunt</td>
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<tr>
<td>Smita Hastack</td>
<td>Samvit Solutions</td>
<td><a href="mailto:shastak@samvit-solutions.com">shastak@samvit-solutions.com</a></td>
<td>Lloyd McKenzie</td>
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<tr>
<td>Robinette Renner</td>
<td></td>
<td><a href="mailto:raley@mdp.org">raley@mdp.org</a></td>
<td>Lloyd McKenzie</td>
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<tr>
<td>Rik Smithies</td>
<td></td>
<td><a href="mailto:rik@smithies.net">rik@smithies.net</a></td>
<td>Lloyd McKenzie</td>
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<tr>
<td>Linda Michaelsen</td>
<td>Optum</td>
<td><a href="mailto:linda.michaelsen@optum.com">linda.michaelsen@optum.com</a></td>
<td>Bryn Rhodes (Duplicate of Row 1)</td>
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<td></td>
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</tr>
<tr>
<td>Patrick Werner</td>
<td>MOLIT Institut</td>
<td><a href="mailto:pw@molfit.eu">pw@molfit.eu</a></td>
<td>David Pyke</td>
<td></td>
<td></td>
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<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>David Pyke</td>
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<tr>
<td>John Moehrke*</td>
<td></td>
<td><a href="mailto:johnmoehrke@gmail.com">johnmoehrke@gmail.com</a></td>
<td>José</td>
<td></td>
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</tr>
<tr>
<td>Oliver Egger*</td>
<td>ahdis / hit7 switzerland</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Christine (Christi) Denney</td>
<td></td>
<td><a href="mailto:christi_d@lilly.com">christi_d@lilly.com</a></td>
<td>BR&amp;R and Trisha Simpson. Author of 1 IG from BR&amp;R for Sept 2019. Will be assisting with IG development for Research.</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Craig Newman</td>
<td>Altarum</td>
<td><a href="mailto:craig.newman@altarum.org">craig.newman@altarum.org</a></td>
<td>Dave Pyke</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Becky Angeles</td>
<td>Carradora</td>
<td>becky. <a href="mailto:angeles@carradora.com">angeles@carradora.com</a></td>
<td>Dave Pyke</td>
<td></td>
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</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.

Oliver Egger* was the originator of the eLTSS project and would like to attend (Recommended by Dave Pyke)
<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Email</th>
<th>X</th>
<th>X</th>
<th>X</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sheridan Cook</td>
<td>Gevity</td>
<td><a href="mailto:scook@gevityinc.com">scook@gevityinc.com</a></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Formerly w/ MiHIN, lots of experience doing IG-type work w/ v2, has now done v3 publisher work with FHIR (Recommended by Lloyd McKenzie)</td>
</tr>
<tr>
<td>Josee Garcia</td>
<td>Gevity</td>
<td><a href="mailto:jgarciag@gevityinc.com">jgarciag@gevityinc.com</a></td>
<td>X</td>
<td>X</td>
<td></td>
<td>Developer/analyst who’s been helping Lloyd with IG creation &amp; review (Recommended by Lloyd McKenzie)</td>
</tr>
<tr>
<td>John Bender</td>
<td>ONC</td>
<td>john. <a href="mailto:bender@hhs.gov">bender@hhs.gov</a></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Recommended by Matt Rahn and Wayne Kubick.</td>
</tr>
<tr>
<td>Paul Knapp</td>
<td>Knapp Consulting</td>
<td><a href="mailto:pknapp@pknapp.com">pknapp@pknapp.com</a></td>
<td></td>
<td>X</td>
<td>X</td>
<td>Self-nominated</td>
</tr>
<tr>
<td>Jamie Parker</td>
<td>Caradorra</td>
<td><a href="mailto:jamie.parker@caradorra.com">jamie.parker@caradorra.com</a></td>
<td>X</td>
<td></td>
<td></td>
<td>Recommended by Dave Pyke</td>
</tr>
<tr>
<td>Scott Gordon</td>
<td>FDA</td>
<td>Gideon. <a href="mailto:Gordon@fda.hhs.gov">Gordon@fda.hhs.gov</a></td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>Request to Wayne</td>
</tr>
<tr>
<td>Keith Boone*</td>
<td></td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>Kathleen Connor*</td>
<td>VA/Book Zurman Inc.</td>
<td><a href="mailto:kathleen_connor@comcast.net">kathleen_connor@comcast.net</a></td>
<td></td>
<td>X</td>
<td>X</td>
<td>Request sent to Wayne. Already have worked on FHIR build for FM/Security but need refresher on build especially for work on FHIR DS4P IG, starting in Sept. But may not need if 101. Wayne indicates that there’s no space until Feb. Not going to AU. Maybe in May 2020 if needed.</td>
</tr>
<tr>
<td>Ben McAlisterr*</td>
<td>Cerner</td>
<td>ben_mcaлистir@cerne r.com</td>
<td>X</td>
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<tr>
<td>Corey Smith*</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Yan Heras*</td>
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<tr>
<td>AbdulMa lik Shaki r*</td>
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<tr>
<td>Mark Kramer</td>
<td>MITRE</td>
<td><a href="mailto:mkramer@mitre.org">mkramer@mitre.org</a></td>
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<td>Approved and confirmed by Wayne</td>
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<tr>
<td>May Terry</td>
<td>MITRE</td>
<td><a href="mailto:mayT@mitre.org">mayT@mitre.org</a></td>
<td>X</td>
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</tbody>
</table>

**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>
</tr>
</thead>
</table>

linked pages:
- [Posting the FHIR specification on hl7.org](https://wiki.hl7.org/Posting_the_FHIR_specification_on_hl7.org)
- [FHIR Product Director Position_Description](https://wiki.hl7.org/FHIR_Product_Director_Position_Description)
- [IG_Publisher_Documentation](https://wiki.hl7.org/IG_Publisher_Documentation)
- [FHIR IG QA_process](https://wiki.hl7.org/FHIR IG QA_process)
- [Process for Publishing a FHIR IG](https://wiki.hl7.org/Process_for_Publishing_a_FHIR IG)

- [Chat.fhir.org Community Expectations](https://wiki.hl7.org/Chat.fhir.org_community_expectations)

linked pages:
- [FHIR Code of Conduct](https://wiki.hl7.org/FHIR_Code_of_Conduct)
- [FHIR Rules for asking questions](https://wiki.hl7.org/FHIR_Rules_for_asking_questions)
- [FHIR Intellectual Property Rules](https://wiki.hl7.org/FHIR_Intellectual_Property_Rules)

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- [FHIR Intellectual Property Rules](https://wiki.hl7.org/FHIR_Intellectual_Property_Rules)

- [Using the FHIR Mapping Language](https://wiki.hl7.org/Using_the_FHIR_Mapping_Language)

linked pages:
- [FHIR Accelerator](https://wiki.hl7.org/FHIR Accelerator)

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.

Joshua Procious added a comment - 2019-10-29 10:06

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"

Joshua Procious added a comment - 2019-10-30 11:28 - edited

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.

Joshua Procious added a comment - 2019-10-30 12:06 - edited

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

Joshua Procious added a comment - 2019-10-30 03:51 - edited

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

Joshua Procious added a comment - 2019-10-31 09:53

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.

Joshua Procious added a comment - 2019-10-31 10:33

FHIR IG Proposal template was overwritten 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.

Joshua Procious added a comment - 2019-10-31 01:03

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.

How-to articles

<table>
<thead>
<tr>
<th>Title</th>
<th>Creator</th>
<th>Modified</th>
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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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FHIR Space Review

<table>
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<th>Initial Review (initials /date)</th>
<th>Space</th>
<th>Section</th>
<th>Page</th>
<th>Location in New Space</th>
<th>Needs Review (Y/N)</th>
<th>Recommendations from Initial Review</th>
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The bulk of the content for this page has yet to be migrated from [http://wiki.hl7.org/index.php?title=FHIR](http://wiki.hl7.org/index.php?title=FHIR)

**Popular Topics**

- [fhir-ig-proposal](http://wiki.hl7.org/index.php?title=FHIR-ig-proposal)
- [fhir-ig-proposal-approved](http://wiki.hl7.org/index.php?title=FHIR-ig-proposal-approved)