FHITR Infrastructure Minutes WGM 202205

Attendees:

Monday

Q1 - Intro to the work group, tracker items
Chair: Lloyd McKenzie
Scribe: Yunwei Wang

Intro to the work group
Lloyd introduces FHITR-I work group, responsible FHITR resources, projects, weekly conference calls

- FHITR-I Confluence Project front page does not list all the FHITR-I projects.

Cochair introduction
Lloyd walks through this week’s meeting schedule

- May cancel Tuesday Q3 due to lack of cochair presence
- Alex may use that quarter for FAST discussion

Lloyd introduces FHITR trackers

Subscription R4B IG Trackers

- FHIR-34287 - Define search parameters for Subscription resource
  - Persuasive
  - Gino Canessa / Rick Geimer: 40-0-0

- FHIR-31471 - Vague interaction descriptions for websocket connections
  - Persuasive
  - Gino Canessa / Richard Ettema: 41-0-1

- FHIR-31448 - js examples?
  - Will create a confluence page with list of reference implementation
  - How stable would be that confluence page?
• SDC has a good example.
  • Josh: It is ok to include code example in an IG. Ex: SMART web messaging.
  • Persuasive with Mod
    • Gino Canessa / Jose Costa Teixeira: 41-0-1

[FHIR-31447 - Websocket sub-protocol] TRAGED
  • Deferred
    • Gino Canessa / Michael Doneelly: 41-0-1

[FHIR-31440 - Too many CodeSystems] PUBLISHED
  • Persuasive with Mod
    • Gino Canessa / Bas van den Heuvel: 42-0-1

[FHIR-31438 - Websocket message format unclear] PUBLISHED
  • Persuasive with Mod
    • Bas van den Heuvel / Josh Mandel: 42-0-1

[FHIR-30634 - Add documentation for backport-additional-criteria and its mapping to RS] PUBLISHED
  • Not Persuasive with Mod
    • Gino Canessa / Richard Ettema: 42-0-1

[FHIR-30410 - Need additional text discussing Bundle.entry requirements] PUBLISHED
  • Persuasive
    • Gino Canessa / Michael Donnelly: 42-0-1

[FHIR-30173 - Need to provide additional guidance on how to use each artifact] PUBLISHED
  • Persuasive
    • Gino Canessa / Rick Geimer: 42-0-1

**FHIR-I Trackers**

[FHIR-36775 - Extensions used that are not defined in the scope] RESOLVED - CHANGE REQUIRED
  • The question is asking for a default dependency on a set of extensions.
  • Like terminology default dependency on THO
    • THO default dependency is the same FHIR version
  • IG can have explicit dependency on a version
  • Adding dependency won't help existing IG, such as US core v3.1.1
  • Maybe split to two issues
    • How do we deal with this moving forward?
    • How do we handle existing IGs?
  • This is not a US core only issue.
  • FHIR-I will take the ticket and discuss in the later quarter this week.

**Q2 - Tracker items**

chair: Lloyd McKenzie
scribe: Rick Geimer

[FHIR-36775 - Extensions used that are not defined in the scope] RESOLVED - CHANGE REQUIRED
  • Continued from Q1 conversation
  • Will revisit after Firely thinks about it some more.

[FHIR-34442 - List.entry.date should be allowed for a list of type changes] APPLIED
• Will remove lst-2 and lst-3
• Rick to create another tracker to discuss whether List.entry.deleted (boolean) should change to List.entry.deletedDate (or allow a choice)
• Persuasive
• Motion: Rick Geimer/Yunwei Wang: 19-0-2

FHIR-32373 - valueFilter element for DataRequirement  APPLIED
• Persuasive
• Motion: Rick Geimer/Richard Ettema: 19-0-3

FHIR-36890 - Clarify Document introduction  APPLIED
• Persuasive
• Alexander Henket/Rick Geimer: 22-0-0

FHIR-35860 - Diff Tab Mislabeled  APPLIED
• Technical correction

FHIR-36888 - Clarify whether a compartment's "identity" resource is in its own compartment  APPLIED
• Persuasive with Mod
• Motion: Josh Mandel/John Moehrke: 21-0-1

FHIR-35993 - Terminology Service CapabilityStatement ownership should be changed to Vocabulary WG  APPLIED
• Persuasive
• Motion: Yunwei Wang/Richard Ettema: 22-0-0

FHIR-36996 - CapabilityStatement invariant cpb-3 has incorrect expression  APPLIED
• Persuasive
• Motion: Josh Mandel/Michael Donnelly: 22-0-0

FHIR-36993 - fhirpath.html page is orphaned (parent page doesn't link to it)  APPLIED
• Persuasive
• Motion: Josh Mandel/Michael Donnelly: 22-0-0

FHIR-36032 - Remove server requirement for update non-Reference fields during transaction bundle processing  APPLIED
• Will continue discussion in Q3

lunch - FMG co-chair/committer open session

Q3 - Tracker items

chair: Lloyd McKenzie
scribe: Yunwei Wang
- FHIR-30632 - Remove CatalogEntry resource  **RESOLVED - CHANGE REQUIRED**
  - Continue discussion from previous quarter
  - This sentence is in a normative page with SHALL requirement. Changing part of that sentence to SHOULD is a breaking change and need to be discussed by the community on zulip
  - Richard Ettema will create a zulip thread for discussion

- FHIR-36106 - DataRequirement reference to canonical(StructureDefinition) should also permit Questionnaire (and maybe ObservationDefinition)  **TRIAGED**
  - Transfer to CDS to get their opinion

- FHIR-36126 - Search Page does not restrict requirements to when search is implemented  **APPLIED**
  - Persuasive
    - Giao Canessa / Yunwei Wang: 10-0-0

- FHIR-36194 - RESTful API Search should clarify whether implicit resources can be searched for  **APPLIED**
  - There is confusion about what the "implicit" resources are
  - Lloyd used "Implicit Code system" in the Codesystem resource as an example.
  - Persuasive
    - Giao Canessa / Yunwei Wang: 14-0-0

- FHIR-36222 - The extension http://hl7.org/fhir/StructureDefinition/workflow-episodeOfCare should also support DocumentReference, Flag  **APPLIED**
  - Persuasive
    - John Moehrke / Gino Canessa: 14-0-0

- FHIR-36212 - Reference.identifier cardinality should be 0..*  **APPLIED**
  - duplicate of  FHIR-30878 - Consider Relaxing Reference.Identifier Cardinality from 0..1 to 0..*  **APPLIED**
    - Persuasive with Mod
      - Yunwei Wang / Alexander Zautke: 14-0-0

- FHIR-36398 - Inconsistent separators in MessageHeader V2 mapping table  **TRIAGED**
  - Transfer to INM

- FHIR-36400 - Inconsistent separators in Task V2 mapping table  **DEFERRED**
  - Transfer to OO

- FHIR-36636 - Documents are immutable or not  **APPLIED**
  - Not Persuasive with Mod
    - Eric Haas will talk to John about seeking broader feedback on Zulip

- FHIR-36651 - Define a "term-filter" modifier on type "token"  **WAITING FOR INPUT**
  - covered by  FHIR-32673 - text for matching on word boundaries  **APPLIED**
    - need continue discussion with Vocab

- FHIR-37368 - Primitive Type RegExes does not match  **APPLIED**
  - Persuasive
    - Giao Canessa / Eric Haas: 14-0-0

**Q4 - FMG session - Hosting BR&R, II, CDS, CQI**

- FMG joint session
• R5 will not go to ballot in Sept, will either be early (June cutoff for content) or late (Aug cutoff) so as not to conflict with the IGs under ballot that cycle. Looking for feedback on this before Thursday at this WGM

• BR&R
  • Hugh Glover briefly described the IGs BR&R will be taking to ballot in Sept, will poll the WG regarding the R5 schedule above.
  • IGs: Real world data, scheduled activities, electronic patient information leaflets
  • They have been working through tracker items, have them down to a "reasonable" number (22-30). All R4b ones are done as of today.
  • They do not anticipate any new resources

• II
  • Resource updates:
    • ImagingSelection move to FMM1
    • ImagingStudy will remain at FMM4
  • Would prefer Aug for R5 cutoff (post Sept ballot)
  • They are ok working through their tracker items
  • No new resources, two IGs in progress, no new ones planned

• CDS
  • Slight preference for Aug timeline for R5. June would be a crunch
  • The have 90 open issues, and are #3 on the list of WGs with the most open items
    • Some discussion about the metrics for WG health
  • Possibility of a new resource: EligibilityCriteria
  • IGs: EBM on FHIR IG, Content Management Infrastructure IG, potential Drug/Drug Interaction IG update (reballot)
  • Likely a few minor FMM updates

• CQI
  • Plan to bring Measure and MeasureReport to FMM5
  • WG focused on R5. Would prefer Aug like CDS
  • QI Core IG being updated, no new IGs or resources
  • G, DOM and Risk Adjustment IGs might get updates in January
  • Bryn asked about an R4b updates. Per Lloyd, there were some unreconciled issues, but are now resolved. So will go to TSC shortly to ask for publication. Anticipate publication this month (May)

Tracker items

- [FHIR-36702](#) - Need more guidance on use of inter-version extensions
  - Persuasive
    - Gino Canessa / John Moehrke: 15-0-1

- [FHIR-36715](#) - Clarify that version-specific references can be used as search parameter values
  - Persuasive
    - Gino Canessa / Rick Geimer: 18-0-1

Tuesday

Q1 - Tracker items (Lloyd PA)

chair: Lloyd McKenzie
scribe: Yunwei Wang

- [FHIR-36715](#) - Clarify that version-specific references can be used as search parameter values
  - Persuasive
    - Gino Canessa / John Moehrke: 15-0-1

- [FHIR-36738](#) - Extension / ElementDefinition Clarifications
  - Persuasive
    - Gino Canessa / Richard Ettema: 16-0-2

- [FHIR-37382](#) - Reference type search parameter does not include the canonical version syntax
  - Persuasive
    - Gino Canessa / Rick Geimer: 18-0-1

- [FHIR-36032](#) - Remove server requirement for update non-Reference fields during transaction bundle processing
  - Persuasive
Mover: Josh Mandel / Richard Ettema: 18-0-1

FHIR-36743 - To provide a triage tag for each event resource  [RESOLVED - NO CHANGE]

- Not Persuasive
  - Josh Mandel / John moehrke: 18-0-1

FHIR-36744 - To provide a best-practice guide on the reference hop limit in use-case implementations [RESOLVED - NO CHANGE]

- This is not part of CapabilityStatement.
- May be better to create extensions
- Not persuasive
  - Josh Mandel / John Moehrke: 20-0-1

FHIR-36755 - Forward / Backward Compatibility Rules - Clarify Warning Constraints are Allowed  [APPLIED]

- Will update the text to clarify that warning constraints/invariants do not impact forward or backward compatibility.
- Persuasive
  - Rick Geimer / Richard Ettema: 20-0-1

FHIR-36849 - Include an optional onHoldPeriod period for all Requests or Events with an on-hold status option  [APPLIED]

- This is a workflow proposal
- We will create a standard extension for holding period
- What happens after the on-hold period ends?
- Persuasive with Mod
  - Rick Geimer / Gino Canessa: 20-0-1

Q2 - FMG session - Hosting Pharmacy, CG, PH

Topics for work group discussion:

- Timeline for R5 - choice of June or Aug - preferences?
  - Final content deadline Jun 19 (< 6 weeks from now), ballot closes Aug. 11
  - Final content deadline Aug 21, ballot closes ~Oct. 12 (well after WGM)
- Are you ready for R5 (and R5 reconciliation)
- Next year
  - any new IGs in the next year
  - any new resources?
- Any FHIR-related issues to discuss?

Notes from discussion

- Lloyd gave the standard FMG info for the week
  - Timeline for R5 (June 19 or Aug 24 content cutoff)
  - Where the WG is at for R5
  - New IGs
  - New Resources
  - Any other WG topics they want to discuss
- Pharmacy
  - Few resources to apply tracker items
  - New resource: FormularyItem
  - No new IGs
  - Will get back to us on the R5 timeline by Thursday
- Clinical Genomics
  - Prefer the Aug cutoff for R5
  - Discussing their new resource (GemonicsStudy) this WGM, still deciding if can get it into R5 (50/50 chance right now, but better if Aug)
  - Their current genomics IG is getting bloated, so may change to a core IG with other specific ones that depend on it, but will require more discussion
  - Some discussion on the implications of changing cannonical URLs, tooling for editing resources, etc.
- Public Health
  - Craig personally prefer the later date (Aug); no clear WG preference at this stage
  - One approved/unapplied change to address before R5
  - No new resources
  - No new IGs now, maybe updates in a year or so
- Discussions about dependencies and the STU update process.
  - Brett mentioned they are discussing this in the cross workgroup projects as well
  - Will discuss further on Thursday for the FMG roundtable
Tracker Items

**FHIR-33977** - Confusing description of module ordering in diagram
- Persuasive with Mod
- Motion: Rick Geimer/Michael Donnelly: 27-0-1

**FHIR-34041** - Extend documentation on safety of generating narratives & ignoring a narrative
- Lots of discussion in the notes, but will not wrap this up this session.

Q3 - How to apply tracker items
- Cancelled due to lack of co-chairs

Q4 - Delegation of existing tracker items
- Educational session on applying tracker items (hold over from last Quarter) and actually applying them if time permits
- Session will be recorded, so will skip minutes except to capture decisions (motions, votes, etc.) if they come up

Q5 - Joint w/ Vocab

Wednesday

Q1 - Tracker items & delegation
chair: Lloyd McKenzie
scribe: Yunwei Wang

Resources:
Base - Richard Ettema
Bundle - Rick Geimer
SearchParameter - Yunwei Wang
Workflow, Questionnaire/QuestionnaireResponse, Events, Tasks - Lloyd McKenzie
DomainResource -
CapabilityStatement -
MetadataResource -

Pages:
Bulk / Async - Josh Mandel
Ballot Intro - Rob Brull
Datatypes -
Extensions -
Extensibility -
Documents - Rick Geimer
Downloads - categorize as tooling
REST - Richard Ettema
JSON operations -

Trackers:

- FHIR-37862 - Reference type search parameter does not include the canonical version syntax vs
- FHIR-34986 - Remove guidance about piped version suffixes in URI type search params

  - It is possible to form a search with both url and version passing as separated parameter
  - Increase the complexity
  - Cannot use in chained search
  - Problem:
  - There is distinction between uri search parameter and reference search parameter. The above examples are references not uri
  - Question: should we have uri search parameter for canonical url?
  - So:
    - QuestionnaireResponse?questionnaire=http://foo|123 is ok (this is reference search)
    - QuestionnaireResponse?questionnaire.url=http://foo|123 is not (this is uri search)

- FHIR-30631 - Need guidance on CapabilityStatement when modifiers like code:in are needed

  - Motion to Reopen
    - Gino Canessa / Rick Geimer: 12-0-1
  - Persuasive
    - Josh Mandel / Yunwei Wang: 11-0-1

- FHIR-36796 - Update R3/R4 maps page for R4B changes

  - R4B does not change existing R3/R4 mapping
  - Not Persuasive with Mod
    - Grahame Grieve / Gino Canessa: 11-0-1

- FHIR-35775 - Extensions used that are not defined in the scope

  - Will leverage existing "tool" package for special extensions
  - Persuasive with Mod
    - Grahame Grieve / Josh Mandel: 11-0-1

Q2 - Tracker items & delegation

- FHIR-36869 - Clarification on conditional update when resource has id

  - Persuasive with Mod
  - Motion: Richard Ettema/Rick Geimer: 11-0-1

- FHIR-36883 - The JSON legend is missing the C?

  - Reassigned to ITS

- FHIR-36884 - XDS discussion is out of date

  - Persuasive
  - Motion: Rick Geimer/Michael Donnelly: 12-0-0

- FHIR-36933 - Add a jurisdiction usage context type

  - Not Persuasive with Mod
  - Motion: Josh Mandel/Rick Geimer: 12-0-0

- FHIR-37359 - regex validation extension has no ability to define the message to report when the rule is violated
Not Persuasive with Mod
Motion: Michael Donnelly/Rick Geimer: 12-0-1

**FHIR-34041** - Extend documentation on safety of generating narratives & ignoring a narrative [APPLIED]

- Persuasive with Mod
- Motion: Rick Geimer/Richard Ettema: 13-0-1

**FHIR-34541** - add value-reference search parameter to Group [APPLIED]

- Persuasive
- Motion: Josh Mandel/Rick Geimer: 14-0-0

**FHIR-26274** - Resource.id is defined with fhir type string instead of id [APPLIED]

- Created proposed disposition, needs review by Grahame

**FHIR-26311** - Clarify Search for Types Number, Date and Quantity [APPLIED]

Not Persuasive with Mod
Motion: Gino Canessa/Rick Geimer: 12-0-0

Q3 - FMG session - Hosting PE, Lloyd to MnM

chair: Josh Mandel
scribe: Yunwei Wang

**Topics for work group discussion:**

- Timeline for R5 - choice of June or Aug - preferences?
  - Final content deadline Jun 19 (< 6 weeks from now), ballot closes Aug. 11
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- Are you ready for R5 (and R5 reconciliation)
- Next year
  - any new IGs in the next year
  - any new resources?
- Any FHIR-related issues to discuss?

**PE**

- Consider creating introduction of FHIR for patient
- Later date would give more flexibility for that content
- We are ready for R5!
- New IGs
  - A white page will be published in September. It may generate some ideas of new IGs
  - A new IG proposal for personal health record.
  - Might be version update, STU2, for existing IG.
- Abigail gave a presentation about the Standard Personal Health Record (SPHR) project proposal
- New resources
  - Possibly not
- FHIR-related issues
  - PACIO ADI
    - Currently scoped as patient authored document
    - Enabling resource to be used by decision support
    - To catch user's preference
      - Might use Questionnaire / QResponse or Observation
      - Using Observation: to separated the collection of data from the data collected
    - Who authorize these ADI?
      - There is a translation process between the original ADI and the decision making process

Q4 - Resource Translation (and Tracker items if time permits)

- Topic spawned by **FHIR-32379** - Document use of translation resource files [TRIAGED]
- Lloyd reviewed and addressed questions regarding the tracker and the options in the proposed syntax comment therein
• Lloyd asked for implementers to test the options, potentially in a Questionnaire track at a future Connectathon, and if successful could be included in a future version of the SDC IG

Tracker items

**FHIR-34198** - Add option to CapabilityStatement to communicate multiple products [RESOLVED - NO CHANGE]

• Not Persuasive (by request of the submitter)
  • Motion: Michael Donnelly/Gino Canessa: 13-0-0

**FHIR-32970** - Clean up the Search Summary Table [APPLIED]

• Persuasive with Mod
  • Motion: Rick Geimer/Jose Teixeira: 13-0-0

**FHIR-27742** - Clarify the use of fullUrl and references in transactions with action POST [RESOLVED - NO CHANGE]

• Most issues resolved in **FHIR-27813** - Confusing language re: when fullUrl is required [RESOLVED - CHANGE REQUIRED]
  • Motion to reopen 27813 to provide the actual replacement text. Vassil Peytchev/Josh Mandel: 13-0-0
  • Motion to apply the change: Vassil Peytchev/Josh Mandel 13-0-0
• Since all Vassil's issues were resolved, he is ok with us rejecting the tracker
  • Motion to reject: Vassil Peytchev/Rick Geimer: 13-0-0

**FHIR-28495** - Support "If-None-Match" for update operations [APPLIED]

• Wil create a new tracker for the update to CapabilityStatement and link it back to this ticket. Will not re-open this one since it is resolved and we are not contradicting it, just adding enough detail in the new tracker to actually apply that piece of the change.

**FHIR-35865** - Should modifierExtensions be included in summary? [APPLIED]

• Josh will start a discussion on Zulip to address the ramifications of making the change since it is a normative resource.

Q5 - Joint w/ Vocab

• Vocab hosting and taking minutes

Thursday

Q1 - Tracker Items

chair: Lloyd McKenzie

scribe: Rick Geimer

**FHIR-26183** - Add guidance on how to handle historical (poorly coded) data when using extensible and required value set bindings [APPLIED]

Lots of discussion, no conclusion

Q2 - Testing and TestScript

chair: Lloyd McKenzie

scribe: Yunwei Wang
Testing / TestScript

Mark Kramer presents MITRE's finding on FHIR testing

Discussion

- Implementation Division should take lead on promoting testing process
- Implementation Guide author should say these are the testing we expect
  - Some part of IG are not testable by automatic testing
  - Profile testing Operation testing
- No one tool could cover all testing
- TestScripts are not shared between different test systems
- Many Aegis specific extensions.
  - May promote to FHIR core extensions
- Promoting tools for testing authoring

Action:

- Considering new project within this WG for testing
  - better talks to Implementation Division (Rick Geimer, Richard Ettema)

Q3 - Tracker items & delegation

Q4 - No meet - FMG roundtable

Q5 - Joint w/ Vocab

Friday

Q1 - FMG session - Hosting Device, Tracker items & delegation, Lloyd to OO

chair: Josh Mandel
scribe: Yunwei Wang

Topics for work group discussion:

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- Next year
  - any new IGs in the next year
  - any new resources?
- Any FHIR-related issues to discuss?

No Devices co-chair joins

FHIR-28945 - Add supporting information related to FMM declaration for core and IG artifacts

- Persuasive
- Assign to Lloyd to create extension

FHIR-36313 - Add ImplementationGuide.dependency.reason

- Agree to add ImplementationGuide.dependsOn.reason as data type markdown with card. 0..1
- Persuasive
  - Yunwei Wang / Josh Mandel: 14-0-1

**FHIR-32742** - Fix for STU3: eld-10 should only apply to snapshot  APPLIED

- Will discuss next week with Grahame if and how we apply changes to STU3 version.
- Richard found that the ticket was already applied
- Mark this ticket as “Applies”

**FHIR-37383** - Clarify that CORS headers are required when supporting browser based token requests  RESOLVED - CHANGE REQUIRED

- Mover: Josh Mandel / Michael Donnelly: 16-0-2

**FHIR-36894** - Document effect of binding an element with multiple types  APPLIED

- there is ambiguity when a binding is applied to an element with choice types.
  - does the UCUM binding applies to Quantity only or other data types such as CodeableConcept?
- Assign to Grahame to draft a clarification paragraph

**FHIR-34332** - Request to include additional search parameters in the registry  DUPLICATE

- Mark as duplicate of FHIR-36879

**FHIR-36879** - Request for Missing Search Parameter definitions  APPLIED

- Graahame already worked on this
- Persuasive with Mod
  - Gino Canessa / Michael Donnelly: 18-0-1

Q2 - Tracker items & delegation

**FHIR-36374** - Resource.id is defined with fhir type string instead of id  APPLIED

- Persuasive with Mod
  - Motion: Grahame Grieve/Michael Donnelly: 10-0-1

**FHIR-35168** - fhirVersion element definition improvements  APPLIED

- Persuasive with Mod
  - Motion: Richard Ettema/Gino Canessa: 13-0-1

**FHIR-35169** - fhirVersion element too restrictive  RESOLVED - NO CHANGE

- Addressed by 26067, no further changes needed.
- Not Persuasive
  - Motion: Grahame Grieve/Richard Ettema: 15-0-0

**FHIR-36334** - Each function should define its behavior for input collections with multiple elements  APPLIED

- Persuasive
  - Motion: Grahame Grieve/Rick Geimer: 15-0-0

**FHIR-36335** - Ensure all function behavior is defined for input collections with more than one item  TRIAGED

- Move to ITS as this is about the FHIREPath spec not the core FHIR spec

**FHIR-36636** - Documents are immutable or not  APPLIED

- Not Persuasive with Mod
  - Motion: Rick Geimer/John Moehrke: 14-0-1

Q3 - Tracker items & delegation