2019-05 v2-to-FHIR Tooling Track

Submitting WG/Project/Implementer Group

- Orders & Observations

Justification and Objectives

- Explore methods to maintain and manage a v2-to-FHIR mapping that can be referenced by FHIR mapping tabs, v2+ mapping tabs, and direct query.
    - The tooling may end up being FHIR based and/or FHIR enabled.
- Test the viability of the current mappings we have.
- Optimize the format of the Confluence mapping pages and relate that format to another format that is machine readable (XML, ConceptMap resources, etc).
    - Includes decision on mapping components and subcomponents, especially when clear data type to data type mappings exist (eg CX to Identifier)
- Learn about what we need in terms of mapping notation including conditional mappings, fixed values, code conversions, data format conversions and FHIR resources which may not directly correspond to content in the v2 message (eg Provenance or .id elements).

This track will use what version of FHIR.

- FHIR R4

Clinical input requested (if any)

- None

Related tracks

- To be determined.

Proposed Track Lead

- Hans Buitendijk - hans.buitendijk@cerner.com
- Craig Newman - craig.newman@altarum.org

Expected participants

9-10

Altarum: Craig Newman

Audicious Inquiry: Keith Boone

CDC: Jason Hall / Megan Light

Cerner: Hans Buitendijk

Health Intersections: Grahame Grieve

JKM Software: Sean Muir

Northrop: Rishi / Marcelo Caldas / Shu McGarvey

Redox: Benjamin Flessner / Brendan Keeler

TBX: Robert Worden

Google Cloud: Yatish Gupta/ Roman Polyanovsky

Track Orientation

- Please join the V2 to FHIR Mapping Tooling call on Wednesday April 24th at 3pm EDT.

System Roles

- Editor - HL7 volunteers/support staff to maintain the mappings
- Publisher - v2+, FHIR, and other venues to publish the content
- Integration Engines - consuming mappings to pre-populate their tools
- Tooling developers writing software to automate the mapping process.

Scenarios

- We will have a repository on GitHub containing sample Version 2 messages that implementers can use to test their conversion tools, along with places for people to store sample outputs from conversions of those message. Link <TBD>
  NOTE: Every version of the base standard has sample messages that would be useful to verify some mappings, but we will want to use real world samples where possible. Other sources might include open source testing tools and scripts (e.g., NIST ONC testing tools)
- We anticipate scenarios will include sample messages where people can try different mappings and mapping technologies:
    - ADT, ORU, MDM, VXU, SIU

- We may explore different mappings from the proposed mappings.
- v2-to-FHIR mapping storage options, e.g., FHIR StructureDefinition, Composition, etc.
    - model
    - versioning
    - tooling
- Maintain/edit v2-to-FHIR mappings, e.g., Individual components, Spreadsheet style, Other?
- Publish mappings for ballot review and general access
- FHIR based API access to mappings for:
    - FHIR tabs
    - v2+ tabs
    - other

TestScript(s)

- Sample v2 messages/segments/fields to use:
    - ADT/Registration/Merge/Link/Unlink
    - Scheduling
    - Vaccination
    - Results

Security and Privacy Considerations

We will not be requiring TLS to participate.