

# 2-To-FHIR Project

- **PSS: 2-To-FHIR**
- **ListServ:** [v2-to-fhir@lists.hl7.org](mailto:v2-to-fhir@lists.hl7.org)
- **Zulip:** <https://chat.fhir.org/#narrow/stream/179188-v2-to.20FHIR>
- **Conference Call Schedule:** <http://www.hl7.org/concalls/Default.aspx?ref=nav>.
  - Every week, Monday 1 - 2 PM ET AND Tuesday 11 AM - 12 PM ET
- **Timeline:** <https://docs.google.com/spreadsheets/d/1VGxDBN5veBPhMISyRIL45CxZ9T5VwrmS0729mTUYas/edit#gid=0>
- **IG Github:** <https://github.com/HL7/v2-to-fhir>
- **Meeting Minutes**
- **v2-to-FHIR Mapping Review Process**
- **Connectathon 25**
  - Highlights: <https://confluence.hl7.org/download/attachments/20022006/v2-to-FHIR%20Track%20Highlight.pptx?api=v2>
  - Open questions: [2020-09-10/11 v2-FHIR Connectathon](#).

## Topics

- Mapping Worksheets:
  - If referencing a v2 table (value set or code system) in the FHIR coding.system, then use this table to find the correct code system: <https://confluence.hl7.org/download/attachments/20022006/v2-tables.xml?api=v2>.
  - Note that for the table one must use the csuri value, not the table specific OID or uri as same tables share the same code system, e.g., HL70125 is a value set on HL70440.
- **gitHub:** <https://github.com/HL7/v2-to-fhir>
- **v2-to-FHIR IG:** <https://build.fhir.org/ig/HL7/v2-to-fhir/branches/master/index.html>
  - Note that for Messages the different .xml, .json, .turtle, .fsh are available from the mapping page (e.g., <https://build.fhir.org/ig/HL7/v2-to-fhir/branches/master/ConceptMap-message-adt-a01-to-bundle.html>), but for segment and data type pages you have to construct the URL by inserting your favorite format before the .html part. For example: Change <https://build.fhir.org/ig/HL7/v2-to-fhir/branches/master/ConceptMap-segment-obrdiagnosticreport-to-diagnosticreport.html> to <https://build.fhir.org/ig/HL7/v2-to-fhir/branches/master/ConceptMap-segment-obrdiagnosticreport-to-diagnosticreport.json.html>
  - Old confluence pages: [Implementation Guide](#)
- **Profiles**
  - **ConceptMap Profile Summary:**
- **v2 Sample Messages**
  - To add samples or output, you can update the page directly, or let Hans know if you don't have an account yet.
  - You do need a JIRA/Confluence account. Instructions to create one are here: <http://www.hl7.org/permalink?confluence>.
- **v2 Message Sample Generator:** <https://github.com/google/simhospital>
- **HL7 Spy**
- **v2-to-FHIR: Test Message Conversions**
- **Extension Proposal List**
- **Validation Rule**
- **Error Log** - Record errors you find in the mapping tables that need to be fixed. Note that these are not meant to include errors to the wrong resource/attribute/component, only errors in syntax and essential data to enable mapping.
- **CWE Mapping Discussion**
  - Write Up: [CWE Advice mapping](#)
- **Spreadsheet:**
- **Ballot Reconciliation**

## Connectathon Pages:

- [September 2019](#)

## Other Helpful/Insightful Links:

- [Microsoft's Google Spreadsheet Download Tool](#).
- <https://fhirblog.com/2019/05/09/convert-v2-to-fhir/>
- <http://hl7.org/fhir/resource-operation-convert.html>

## Known Implementation Projects

Please enter your project if you are contributing to and/or using the mappings as they are being defined.

## Approach:


- **Data Type Mapping**
  - Initially target creating worksheets/templates to assist Segment/Field mapping.
  - Do so as we go, i.e., work on a segment and populate the data type mappings as we run into them.
  - Create flavors as needed.
- **Segment/Field Mapping**
  - Target this as balloted content.

- Create flavors as needed based on use in various messages.
- Segments in priority order for now: **MSH, PID, PD1, NK1(RelatePerson/Patient.contact)**, ROL/PRT, (IN1), PV1, PV2, ORC, OBR, OBX, RXO?, RXE?, RDS?, RXA, RXR, SPM, NTE
- Messages
  - Target this as balloted content.
  - Message in priority order for now: **A01, A04**. ORM/OMG, OML, ORU, VXU, DFT
  - [v2-to-FHIR Security/Access Restriction](#)

## Mapping topics to discuss

- The use of the Provenance resource when "entering" information is part of the segment (e.g. ORC-10)
  - [v2-to-FHIR Provenance](#)
- How to best populate Resource.id and what are the implications for future FHIR queries/searches
  - Technically this doesn't seem to be required, but it seems pretty foundational
  - If we do decide to populate this, how do it for resources that are the central focus of the v2 message (eg. what is Provider.id for the administering provider of an immunization?)
- The need to provide guidance on required resource elements (if any) when there isn't a direct equivalent in the v2 message
- Many segments use Action Code (Add, Delete, Update) - we should talk about how to handle this information. Does a D map to a status of "entered-in-error"? Do we need to map values of A and U?
- Where FHIR providers a preferred, extensible or required value set and v2 has commonly used table values, do we want to provide a mapping between value sets?
- We should review Zulip threads related to messaging including:
  - <https://chat.fhir.org/#narrow/stream/179166-implementers/topic/Purpose.20of.2022MessageHeader.2Efocus.22>
- When we get to medication messages, review the Zulip thread here: [https://chat.fhir.org/#narrow/stream/179188-v2-to.20FHIR/topic/RDE\\_O11.20to.20MedicationRequest.20and.20Medication/near/162455908](https://chat.fhir.org/#narrow/stream/179188-v2-to.20FHIR/topic/RDE_O11.20to.20MedicationRequest.20and.20Medication/near/162455908)
- People are asking about what event types to use
  - See Zulip thread <https://chat.fhir.org/#narrow/stream/179166-implementers/topic/FHIR.20Messaging.20Event.20types.3F>
- How to handle fields containing ""
  - See Zulip thread [https://chat.fhir.org/#narrow/stream/179188-v2-to.20FHIR/topic/.22.22.20\(known.20to.20be.20empty\)](https://chat.fhir.org/#narrow/stream/179188-v2-to.20FHIR/topic/.22.22.20(known.20to.20be.20empty))
- What guidance if any should we give on using contained resources when converting a message to a FHIR bundle.
- We should at least mention deduplication as a implementation decision
  - For example, if the same provider shows up multiple times in a message (multiple PRT segments or multiple ORC segments, each with ORC-12 populated), should the transformation create one Practitioner resource for each instance in the message or just create one and reference it multiple times?
  - If the transformer does deduplication, what level of "certainty" should they have before deciding multiple occurrences do represent the same person?
- We should come up with a map of OBX-2 values to FHIR data types
  - See Zulip thread <https://chat.fhir.org/#narrow/stream/179166-implementers/topic/observation.20value.5Bx.5D>

## Attachments

File	Modified 
Microsoft Excel Spreadsheet 2-To-FHIR.xlsx	Oct 03, 2018 by Hans Buitendijk
Microsoft Excel Spreadsheet 2-To-FHIR - Data Types.xlsx	Nov 07, 2018 by Hans Buitendijk
Microsoft Excel Spreadsheet 2-To-FHIR - Segments.xlsx	Nov 07, 2018 by Hans Buitendijk
Microsoft Excel Spreadsheet 2-To-FHIR - Data Types - Craig.xlsx	Nov 27, 2018 by Hans Buitendijk
XML File v2-tables URIs.xml	Jun 10, 2019 by Hans Buitendijk
Text File ADT_A01.txt	Nov 05, 2019 by Hans Buitendijk
File ADT_A01 - FHIR Bundle	Nov 05, 2019 by Hans Buitendijk
File ConceptMap Mapping Example.json	Dec 18, 2019 by Hans Buitendijk
File v2 Tables URI	Jan 06, 2020 by Hans Buitendijk
Microsoft Excel Spreadsheet bundle.xlsx	Feb 17, 2020 by Hans Buitendijk
File ConceptMap Mapping Example	Apr 23, 2020 by Hans Buitendijk
Microsoft Word Document HL7 Message - FHIR R4 - ADT_A01 - fsh.docx	Jun 01, 2020 by Hans Buitendijk
Microsoft Word Document HL7 Segment - FHIR R4 - PID - fsh.docx	Jun 01, 2020 by Hans Buitendijk

---

XML File v2-tables.xml	Aug 31, 2020 by Hans Buitendijk
Microsoft Powerpoint Presentation CAT 25 Connectathon Track Orientation -v2-to-FHIR.pptx	Sep 08, 2020 by Hans Buitendijk
Multimedia File 2020-09-08 Connecathon 25 - v2 To FHIR Track Overview.mp4	Sep 08, 2020 by Hans Buitendijk
Microsoft Excel Spreadsheet value set mapping outcomes.xlsx	Sep 10, 2020 by Hans Buitendijk
Microsoft Word Document Enhanced advice for CWE to CodeableConcept mapping.docx	Sep 10, 2020 by Hans Buitendijk
Microsoft Powerpoint Presentation v2-to-FHIR Track Highlight.pptx	Sep 11, 2020 by Hans Buitendijk
Microsoft Excel Sheet V2_IG_V2-2-FHIR_R1_D1_2020SEP_consolidated.xls	Nov 03, 2020 by Hans Buitendijk

---

 [Download All](#)