RDF - FHIR/RDF

The RDF for Semantic Interoperability group (or RDF group) is a sub-group of the HL7 ITS work group and a joint collaboration with the W3C Healthcare and Life Sciences group on Clinical Observations Interoperability to facilitate the use of RDF as a common semantic foundation for healthcare information interoperability. The main focus is currently on FHIR/RDF – the standard RDF (Turtle) format for FHIR data.

Anyone may join this group simply by participating in the work, which is conducted mainly on the public HL7 and W3C mailing lists listed below and on a weekly teleconference. You are encouraged to become an HL7 member, but not required unless you wish to take a leadership role in an HL7 group, such as becoming a co-chair. You are also encouraged to have your organization become a W3C member, but not required. See benefits of W3C membership.

Related resources

- Mailing lists (please join at least one and cross post to both):
  - HL7 ITS work group mailing list - Subscribe
  - W3C HCLS mailing list - Subscribe
- FHIR RDF issues list
- http://build.fhir.org/rdf.html
- Tutorials:
  - Tutorial: FHIR RDF as a Bridge to the Semantic Web in Healthcare

Weekly Teleconference – Add to Calendar

- Thursdays 11am-12pm (Boston timezone – see timezone converter)
- Zoom teleconference URL: https://tinyurl.com/fhirrdfzoom
- W3C IRC -- channel #hcls – for taking minutes during the teleconference - See help page

Agenda - Thursday Oct 13, 2022

Chair: David Booth <david@dbooth.org>

1. Timeline for Updating the FHIR spec for R5 RDF changes:
   a. Ballot closing "mid Oct" – need to submit ballots
   b. FHIR ontology -- Deepak
      i. And Add ontology property relationships to underscore properties: value ? _value
   c. ShEx -- Deepak
   d. Examples -- Jim
   e. Resource templates -- Jim
   f. HAPI parser/generator -- EricP
   g. Extensions page
   h. Script to convert R5 RDF to OWL-and-SPARQL-friendly RDF
2. TODO 1: Mark the FHIR Ontology draft on W3C github document as obsolete and point it to the generated FHIR RDF vocabulary/ontology? -- DBooth
3. Issue 94: Concept URIs -- (Leader: Gaurav)
4. Issue 98: FHIR RDF playground
5. Other issues

Future Agenda

1. FHIR RDF issues that Harold Solbrig found
2. FHIR JSON pre-processing needed for converting FHIR JSON to FHIR RDF using JSON-LD 1.1
3. (After Harold’s retirement, per Harold 8/16/21) schema.org alignment with FHIR/RDF – also healthcare.schema.org
4. ShExMap demo

Minutes

- Oct 06, 2022 – R5 updates (no call on Sept 29)
- Sep 22, 2022 – R5 updates
- Sep 15, 2022 – R5 updates
- Sep 08, 2022 – R5 updates
- Sep 01, 2022 – R5 updates, I18N
- Aug 25, 2022 – R5 updates, Concept IRIs #94
- Aug 18, 2022 – Concept IRIs #94
- Aug 17, 2022 – ITS group meeting with RDF subgroup
- Aug 16, 2022 – Issues 76, 106, 93
- Aug 11, 2022 – Issues 104, 94, 76, 93
- Aug 09, 2022 – Issues 76, 93
- Aug 04, 2022 – Issues 76, 93, 104
- Aug 02, 2022 – Issues 93, 104
- Jul 28, 2022 – Issues 102, 93, 69, 104, 76, 95
- Jul 21, 2022 – RDF Lists; Concept IRIs: #102 Concepts with both scalar and object range
- Jul 14, 2022 – Issue 94 (Concept IRIs), Issue 95 (References lack a type arc)
**Archive**

In 2020 HL7 migrated from MediaWiki to Confluence.

- RDF subgroup archive on the old Wiki
- Older meeting Minutes