

ONC Grant Project Page

This page is a continuation from the [ONC Grant Project Page Wiki page](#) to support projects within the following ONC Grant funded opportunity: Maturing C-CDA and FHIR Implementation (2019 -)

(The full title of the Funding Opportunity Announcement (FOA) is: Closing the Gap between Standards Development and Implementation-Maturing the Consolidated Clinical Document Architecture (C-CDA) and Fast Healthcare Interoperability Resources (FHIR) Standard)

The following are brief descriptions of each project created under the Maturing C-CDA and FHIR Implementation (2019 -) ONC grant. Project deliverables are also linked with each project.

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Project: Flat FHIR (Bulk Data & Push)

Description:

Ballot the FHIR Bulk Data Implementation Guide (IG) in HL7's 2019 May ballot cycle; develop a test suite and utility to verify vendor compliance with the bulk data spec Flat FHIR format; design a Bulk Data import approach; maintain reference implementation by adding performance monitoring and User /Traffic management

Deliverables:

1. [FHIR Bulk Data Test Suite Design_v2.pdf](#)

Project: Unified HL7 Terminology Governance (UTG)

Description:

Develop a working demonstration pilot for UTG-based terminology maintenance system; debug and test tool; provide Project Management

[UTG Project Page](#)

[UTG Project Management Page](#)

Deliverables:

[UTG Document Repository Page \(including project plan\)](#)

The current rendered pages for UTG content can be viewed here: <https://build.fhir.org/ig/HL7/UTG/>

Project: C-CDA Implementation-A-Thons

Description:

Engage industry players (vendors, healthcare providers, payers and health information exchanges) via a C-CDA Implementation-A-Thon track within the FHIR Connectathon. The objective of the 2-day event is to improve the quality and consistency of C-CDA implementers. The IAT involves hands-on exercises to reduce variability among C-CDA documents and the ability to share best practice experiences.

[C-CDA IAT Project Page](#)

Deliverables:

Virtual FHIR Connectathon – Healthcare Directory Track

[C-CDA IAT: January 12-13, 2019 \(San Antonio, Texas\)](#)

Results from the C-CDA IAT in San Antonio are written up here:

<https://docs.google.com/document/d/1Z9JDmZZYncNKDM6Q7ja10-Yw8c3Mz-tCVHJunxBYhEw/edit#heading=h.eupkqds8qcxcv>

[C-CDA IAT: September 14-15, 2019 \(Atlanta, Georgia\)](#)

Project: Improve FHIR JIRA Ballot Process & Tooling

Description:

Determine how best to get information to participants without overwhelming them; Create dashboards that allow users to quickly see relevant information; Document the JIRA ballot process; Complete and test the MIF conversion process.

Deliverables:

Project: FHIR Implementation Guide Publication Coordinator

Description:

Monitor the FHIR IG publishing and balloting processes; facilitate review/ approval of the IGs that will be published in a given ballot cycle; provide educational materials on processes related to the publication and balloting of IGs.

Deliverables:

[FHIR IG List](#)

Project: FHIR Connectathon Administrator

Description:

Prepare a FHIR Connectathon communication plan, a pre-connectathon and post-connectathon survey; an orientation package for all track leads and an event report.

Deliverables:

[January 2019 FHIR Connectathon](#)

[Connectathon Communication Plan - CAT20 - January 2019.xlsx](#)

[January 2019 Pre Connectathon 20 Survey.xlsx](#)

[Orientation Package for all Track Leads](#)

[HL7 FHIR Connectathon 20 FeedbackSurvey - January 2019.xlsx](#)

[Event Report - January 2019](#)

[May 2019 FHIR Connectathon \(CAT 21\)](#)

[Connectathon Communication Plan - CAT21 - May 2019.xlsx](#)

Pre Connectathon Survey available upon request via pmo@HL7.org as it contains confidential information.

[Orientation Package for all Track Leads](#)

[Post CAT21 Feedback Survey Response Data - 2019 May.pdf](#)

[Event Report - May 2019](#)

[September 2019 FHIR Connectathon \(CAT 22\)](#)

[September 2019 Pre Connectathon 22 Survey.xlsx](#)

[FHIR Connectathon Info Session 9.10.19 - September 2019.pptx](#)

[CAT22 Wrap Up Slides - September 2019.pptx](#)

[CAT22 Feedback Survey - September 2019.pdf](#)

[HL7 FHIR Connectathon 22 Outcomes Report - September 2019.docx](#)

Project: Compare IPS & Argonaut US Core IGs - Complete

Description:

Perform a comparison between the International Patient Summary and the Argonaut / US Core implementation guides

Deliverables:

[White Paper: Argonaut vs. IPS: A Compare and Contrast between Two FHIR Implementation Guides](#)

[A list of the differences in terms of FHIR resources used, required elements, vocabularies, constrains and REST interactions and operations.](#)

Project: FHIR Product Support

Description:

Provide increased administrative support for standards development, publication and maintenance to facilitate the release of each new version of the FHIR core specification work as well as with other key FHIR SMEs to implement specific improvements for long-term, sustainable FHIR processes and tools.

Deliverables:

Project: US Core Ballot Reconciliation Support - Complete

Description:

Provide support for reconciliation and publication of the US Core Implementation Guide, based on FHIR R4, which was balloted in the January 2019 ballot cycle. This new ballot added support for Clinical Notes, fixed errata logged since publication of R3, and upgraded all the Resources to support the FHIR R4 release and closed on January 7th, 2019. Rreview and reconcile comments; update the US Core FHIR Implementation Guide to submit it for final publication.

Deliverables:

[US Core R4 Implementation Guide](#)

Project: FHIR Education Fact Sheets

Description:

Create HHS branded webinars and other learning materials that provide guidance on selection of FHIR releases, Implementation Guides, profiles, etc. to be used within projects. The target audience will be federal government project/program managers leading HL7 related projects.

[Fact Sheets - Work in Progress](#)

Deliverables:

<https://www.healthit.gov/topic/standards-technology/standards/fhir-fact-sheets>

Project: C-CDA Web Publication Tooling

Description:

Produce a sustainable, efficient means of publishing new versions of C-CDA (and potentially CDA in a later phase) as a Web Specification (similar to FHIR). The output of this project will be tooling together with necessary supporting documentation to support publication of C-CDA and CDA implementation guides through the FHIR IG Publisher

Deliverables:

Project: C-CDA Companion Guide Update

Description:

The prior version of the companion guide is specific to a rule, the 2015 ONC Certification rule. The ONC published a new proposed rule in 2019 which necessitates updates to the companion guide. This project consists of project management support and content development for the update of the companion guide to support C-CDA implementations in the US consistent with ONC timelines. Updates may include new C-CDA templates and other revisions to meet industry requirements, for example changes in government requirements. The set of updates for any release SHALL require approval by the Structured Documents Work Group and the US Realm Steering Committee.

Additionally, QA and editing of the C-CDA sample files that will be associated with the published C-CDA R2.1 Companion Guide Update. These files have already passed the ONC Validator and the ONC Scorecard. The QA is to encompass evaluating the rendered documents, including sensical header (administrative data) and comparing the entries with the rendered section text. Focus will include known problematic areas such as time and effectiveTime format and rendering and ensuring that the coded entry data makes clinical sense and accurately aligns with rendered information.

Deliverables:

[HL7 CDA® R2 Implementation Guide: C-CDA Templates for Clinical Notes Companion Guide, Release 2 STU - US Realm](#)

Project: C-CDA Release 2.2 – Phase 1

Description:

Create Volume 1 for C-CDA R2.2 using existing C-CDA R2.1 plus updates being proposed for Companion Guide and using Trifolia on FHIR for this work, so as to keep both of these documents aligned during the C-CDA Companion Guide Ballot Reconciliation. The C-CDA Volume 1 content created will be aligned with balloted C-CDA R2.1 Companion Guide R2 and in conjunction with tooling revisions and ready for STU Update commenting.

Deliverables:

Project: FHIR IG Workshop - Complete

Description:

To be held September 11-13, 2019 in Atlanta. The goal of this event is to build capacity within the HL7 community for creating and reviewing high quality FHIR IGs so as to be in a better position to handle the expected future increase in volume. The agenda for Wednesday and Thursday will focus on best practices in FHIR IG Development, including understanding the IG Publisher, preparing a good quality specification and review of Melva's FHIR IG Publication Checklist. On Friday morning there will be a workshop focused on terminology considerations - both for creating IGs and for reviewing balloted IGs. Friday afternoon will conclude with a half-day workshop for best practices in reviewing FHIR IG ballots (IG consistency review).

[Individuals Interested in FHIR IG Development \(waitlist\)](#)

[FHIR IG Workshop FAQs](#)

Deliverables:

Recordings from the workshop are now available by day:

Day 1:

<https://www.youtube.com/playlist?list=PL4DUfomz2RZx0RZc2CTP0zGkQxSvk6DKe>

Day 2:

https://www.youtube.com/playlist?list=PL4DUfomz2RZxj_brneaEeHvJc_d7RyNuf

Day 3:

<https://www.youtube.com/playlist?list=PL4DUfomz2RZxfLHNEIwGp4woyI1R5IMYN>

Project: FHIR Bulk Data Meeting

Description:

To be held in November 6, 2019; Boston Children's Hospital to lead the event (similar to the event held in December 2017) which will focus on their Bulk Data work.

Deliverables:

Project: Finish the IG Publisher Templates Framework

Description:

Modify the existing FHIR IG Publisher Templates Framework into a single new framework that uses the (newly developed and highly alpha) publisher template approach, as well as make other changes that were agreed upon at the Montreal WGM; complete all modifications by the September 2019 WGM,

Deliverables:

Project: Ballot the IPS FHIR Implementation Guide

Description:

Complete the remaining updates needed to the FHIR IPS Implementation Guide (IG) content so that it publishes correctly and is ready for the final submission and balloted in the September 2019 ballot cycle;

Deliverables:

Project: FHIR Terminology Server Support

Description:

Provide support for the FHIR Terminology Server including, but not limited to, rebuilding the FHIRServer project when code updates are made; updating SNOMED CT to the latest versions; additional terminology server support as needed.

Deliverables:

Project: US Core Updates for Provenance - Complete

Description:

Perform updates to the US Core FHIR Implementation Guide to prepare it for STU publication as follows:

- Develop and finalize approval/plan for STU Update
 - Key items: Provenance; MedicationRequest; Devices – Implantable Devices; New query guidance for multiple patients; Pulse Oximetry; Updated guidance
- Review and reconcile US Core gForge trackers
- Pre-STU trackers applied; Publish fixed STU update version for commenting
- Collect comments and review them onsite at the September 2019 Working Group Meeting

Deliverables:

The IG was published on September 3, 2019 for STU Comment publication and a copy of it is located here: <https://build.fhir.org/ig/HL7/US-Core-R4/> . The final address for this publication to be announced.

Regarding publishing the updates, the repository for all the material is at <https://build.fhir.org/ig/HL7/US-Core-R4/> . The final address for this publication is to be <http://hl7.org/fhir/us/core/>

Project: eLTSS Reference Implementation

Description:

Apply eLTSS IG FHIR constraints to resources (eLTSS profiles)

Deliverables:

Project: Rubric Reconciliation

Description:

Management of ballot comment reconciliation of comments placed against the HL7 Informative Document: C-CDA Rubric, Release 1. Including incorporation of resolution edits into the guide and managing the guide through publication on the HL7 website.

Deliverables: