

FHIR Shorthand - PSS

[PSS Help and FAQs](#)

[Comments](#)

1a. Project Name	FHIR Shorthand
1b. Project ID	1569
1c. Is Your Project an Investigative Project (aka PSS-Lite)?	No
1d. Is your Project Artifact being Reaffirmed or proceeding to Normative directly after being either Informative or STU?	No
1e. Today's Date	
1f. Name of standard being reaffirmed	
1g. Project Artifact Information	
1h. ISO/IEC Standard to Adopt	
1i. Does the standard include excerpted text from one or more ISO, IEC or ISO/IEC standards, but is not an identical or modified adoption?	
1j. Unit of Measure	
2a. Primary/Sponsor WG	FHIR Infrastructure
2d. Project Facilitator	Mark Kramer
2e. Other Interested Parties (and roles)	Chris Moesel (lead implementer), Rick Geimer (tester), Ewout Kramer (design advisor).
2f. Modeling Facilitator	
2g. Publishing Facilitator	
2h. Vocabulary Facilitator	
2i. Domain Expert Representative	
2j. Business Requirements Analyst	
2k. Conformance Facilitator	
2l. Other Facilitators	

2m. Implementers	MITRE Corporation, Lantana
3a. Project Scope	FHIR Shorthand is a specification of a domain-specific language (DSL) to allow Implementation Guide authors to define conformance resources (e.g., StructureDefinitions, ValueSets, etc.) and general instances (e.g., examples). This project will define the syntax of FHIR Shorthand, and develop a reference implementation of an importer/exporter/compiler ("Sushi") that creates FHIR content ready for the FHIR IG Publisher or other consumers of Conformance Resources. Project will also explore importing StructureDefinitions to FSH.
Attachments	FHIR Shorthand - v3.docx
3b. Project Need	<p>To better support complex clinical modeling/profiling projects and effectively integrate across projects.</p> <p>Explanation: To grow, the FHIR community needs scalable, user-friendly tools for IG creation and maintenance. Currently, IG projects are difficult and slow, and the results inconsistent. As a user-facing format, StructureDefinitions (SDs) are complex and unwieldy. While available tools (Forge, Trifolia-on-FHIR, Excel spreadsheets) improve this situation, there are still shortcomings:</p> <ol style="list-style-type: none"> Although the current tools provide a friendlier interface, the tools are not particularly agile when it comes to refactoring. Source code control system (SCCS) features such as differentials and merging changes are not well supported. Excel files cannot be effectively diff'ed, and the other tools can be managed in SCCS only as SDs. <p>To address these limitations, we propose a domain specific language (DSL) designed for the job of defining profiles, extensions, invariants, value sets, examples, search parameters, etc. FHIR Shorthand (FSH) will be designed to work optimally with SCCS, with meaningful differentials, support for merging and conflict resolution, and refactoring through global search/replace operations. These features will permit FSH to scale in ways that visual editors and spreadsheets cannot.</p>
3c. Security Risk	No
3d. External Drivers	
3e. Objectives/Deliverables and Target Dates	Version 1 for Connectathon testing by May 2020 with concurrent comment-only ballot. First release version with STU ballot by Sept 2020 (at the earliest).
3f. Common Names / Keywords / Aliases:	FSH, SUSHI, DSL, shorthand, IG, language
3g. Lineage	Based on similar free, open source tool called CIMPL (Clinical Information Modeling and Profiling Language) developed primarily by MITRE Corp. and used to develop mCODE, ODH, and other balloted IGs.
3h. Project Dependencies	None.
3i. HL7-Managed Project Document Repository URL:	https://confluence.hl7.org/display/FHIRI/FHIR+Shorthand
3j. Backwards Compatibility	No
3k. Additional Backwards Compatibility Information (if applicable)	
3l. Using Current V3 Data Types?	No
3l. Reason for not using current V3 data types?	FHIR datatypes are used.
3m. External Vocabularies	No
3n. List of Vocabularies	

30. Earliest prior release and/or version to which the compatibility applies	n/a
4a. Products	Creating/Using a tool not listed in the HL7 Tool Inventory
4b. For FHIR IGs and FHIR Profiles, what product version(s) will the profiles apply to?	R4 +
4c. FHIR Profiles Version	
4d. Please define your New Product Definition	
4d. Please define your New Product Family	
5a. Project Intent	Create new standard
5a. White Paper Type	
5a. Is the project adopting/endorsing an externally developed IG?	
5a. Externally developed IG is to be (select one)	
5a. Specify external organization	
5a. Revising Current Standard Info	
5b. Project Ballot Type	Comment (aka Comment-Only), STU to Normative
5c. Additional Ballot Info	
5d. Joint Copyright	No
5e. I understand I must submit a Joint Copyright Letter of Agreement to the TSC in order for the PSS to receive TSC approval.	no
6a. External Project Collaboration	Will work with FHIR Accelerator projects (e.g., DaVinci, CODEx).
6b. Content Already Developed	5%
6c. Content externally developed?	No
6d. List Developers of Externally Developed Content	
6e. Is this a hosted (externally funded) project?	No
6f. Stakeholders	Standards Development Organizations (SDOs), Other
6f. Other Stakeholders	FHIR Community (anyone who develops IGs)
6g. Vendors	N/A

6g. Other Vendors	
6h. Providers	N/A
6h. Other Providers	
6i. Realm	Universal
7d. US Realm Approval Date	
7a. Management Group(s) to Review PSS	FHIR
7b. Sponsoring WG Approval Date	Sep 18, 2019
7c. Co-Sponsor Approval Date	
7c. Co-Sponsor 2 Approval Date	
7c. Co-Sponsor 3 Approval Date	
7c. Co-Sponsor 4 Approval Date	
7c. Co-Sponsor 5 Approval Date	
7c. Co-Sponsor 6 Approval Date	
7c. Co-Sponsor 7 Approval Date	
7c. Co-Sponsor 8 Approval Date	
7c. Co-Sponsor 9 Approval Date	
7c. Co-Sponsor 10 Approval Date	
7e. CDA MG Approval Date	
7f. FMG Approval Date	Nov 06, 2019
7g. V2 MG Approval Date	
7h. Architecture Review Board Approval Date	
7i. Steering Division Approval Date	Nov 21, 2019
7j. TSC Approval Date	

