

2-To-FHIR

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1. Project Name and ID

Project Name: Definitive HL7 V2 - HL7 FHIR Mapping		Project ID:
<input type="checkbox"/>	TSC Notification Informative/STU to Normative	Date : 1481
<input type="checkbox"/>	Investigative Project	Date :

2. Sponsoring Group(s) / Project Team

2.a.Primary Sponsor/Work Group: (1 (And Only 1) Allowed)	Orders & Observations
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2.b. Co-sponsor Work Group(s)

(Enter co-sponsor approval dates in Section 6.c Project Approval Dates)	Clinical Genomics
Indicate the level of involvement that the co-sponsor will have for this project:	
<input checked="" type="checkbox"/> Request formal content review prior to ballot	
<input type="checkbox"/> Request periodic project updates. Specify period:	WGMs
<input checked="" type="checkbox"/> Other Involvement. Specify details here:	Clem McDonald, Andrea Pitkus. Gil Alterovitz, and Kevin Power will participate as SMEs.

(Enter co-sponsor approval dates in Section 6.c Project Approval Dates)	Infrastructure and Messaging
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Indicate the level of involvement that the co-sponsor will have for this project:

<input checked="" type="checkbox"/> Request formal content review prior to ballot	
<input type="checkbox"/> Request periodic project updates. Specify period:	
<input type="checkbox"/> Other Involvement. Specify details here:	

(Enter co-sponsor approval dates in Section 6.c Project Approval Dates)

Patient Administration

Indicate the level of involvement that the co-sponsor will have for this project:

<input checked="" type="checkbox"/> Request formal content review prior to ballot	
<input type="checkbox"/> Request periodic project updates. Specify period:	<Monthly, at WGMs, etc.>
<input checked="" type="checkbox"/> Other Involvement. Specify details here:	Focus on governance on final decisions related to PA owned artifacts

[2018-11-13 FM Interim Meeting](#)

Financial Management

Indicate the level of involvement that the co-sponsor will have for this project:

<input type="checkbox"/> Request formal content review prior to ballot	
<input type="checkbox"/> Request periodic project updates. Specify period:	<Monthly, at WGMs, etc.>
<input checked="" type="checkbox"/> Other Involvement. Specify details here:	Updates will be provided as needed when FM materials are involved.

(Enter co-sponsor approval dates in Section 6.c Project Approval Dates)

FHIR Management Group

Indicate the level of involvement that the co-sponsor will have for this project:

<input checked="" type="checkbox"/> Request formal content review prior to ballot	
<input type="checkbox"/> Request periodic project updates. Specify period:	<Monthly, at WGMs, etc.>
<input checked="" type="checkbox"/> Other Involvement. Specify details here:	Address the relationship with current mapping documentation

(Enter co-sponsor approval dates in Section 6.c Project Approval Dates)

Modeling & Methodology

Indicate the level of involvement that the co-sponsor will have for this project:

<input type="checkbox"/> Request formal content review prior to ballot	
<input checked="" type="checkbox"/> Request periodic project updates. Specify period:	<i>As needed, at least per WGM</i>
<input type="checkbox"/> Other Involvement. Specify details here:	

(Enter co-sponsor approval dates in Section 6.c Project Approval Dates)

Conformance

Indicate the level of involvement that the co-sponsor will have for this project:

<input checked="" type="checkbox"/> Request formal content review prior to ballot	
<input checked="" type="checkbox"/> Request periodic project updates. Specify period:	<i>As scheduled</i>
<input checked="" type="checkbox"/> Other Involvement. Specify details here:	<i>contribute to the general approach and methodology</i>

(Enter co-sponsor approval dates in Section 6.c Project Approval Dates)

Service Oriented Architecture

Indicate the level of involvement that the co-sponsor will have for this project:

<input type="checkbox"/> Request formal content review prior to ballot	
<input checked="" type="checkbox"/> Request periodic project updates. Specify period:	<i>At WGMs, periodic calls</i>
<input type="checkbox"/> Other Involvement. Specify details here:	<i><other involvement></i>

(Enter co-sponsor approval dates in Section 6.c Project Approval Dates)

Patient Care

Indicate the level of involvement that the co-sponsor will have for this project:

<input type="checkbox"/> Request formal content review prior to ballot	
<input checked="" type="checkbox"/> Request periodic project updates. Specify period:	WGM and more frequent updates if needed
<input checked="" type="checkbox"/> Other Involvement. Specify details here:	Contribution to the mapping and mapping review.

(Enter co-sponsor approval dates in Section 6.c Project Approval Dates) Pharmacy

Indicate the level of involvement that the co-sponsor will have for this project:

<input checked="" type="checkbox"/> Request formal content review prior to ballot	
<input type="checkbox"/> Request periodic project updates. Specify period:	
<input type="checkbox"/> Other Involvement. Specify details here:	

(Enter co-sponsor approval dates in Section 6.c Project Approval Dates) Public Health

Indicate the level of involvement that the co-sponsor will have for this project:

<input type="checkbox"/> Request formal content review prior to ballot	
<input checked="" type="checkbox"/> Request periodic project updates. Specify period:	WGMs
<input checked="" type="checkbox"/> Other Involvement. Specify details here:	Other updates as needed

2.c Project Team

Project facilitator (1Mandatory)	Hans Buitendijk
Other interested parties and their roles	<Interested Party & Role>
Multi-disciplinary project team (recommended)	
Modeling facilitator	<Facilitator>
Publishing facilitator	<Facilitator>

Vocabulary facilitator	<Facilitator>
Domain expert rep	Mapping: Kevin Power, Clem McDonald, Andrea Pitkus, Gil Alterovitz, David Burgess, Vince McCauley, Freida Hall, Frank Oemig, Kathleen Connor, Craig Newman, Nathan Bunker Tooling/Methodology: Robert Worden, Ken Lord, Sean Muir, Frank Oemig, Rob Snelick
Business requirement analyst	
Conformance facilitator (for IG projects)	
Other facilitators (SOA, etc)	
Implementers (2 Mandatory for STU projects)	
FHIR Project Note: The implementer requirement will be handled by the "balloting" project. Therefore work groups do not fill out the above section. However, feel free to list implementers specific to your work group's resources if you know of any.	
1) Orion	
2) Cerner	

3. Project Definition

3.a. Project Scope

With the advent of HL7 FHIR, a definitive mapping of HL7 V2 components to HL7 FHIR components would aid in the consistent transition of data communicated using either standard, while creating a starting point for those interested to convert HL7 V2 messages into FHIR based approaches. The current mapping information in HL7 FHIR is limited to addressing HL7 FHIR components only and incomplete in that it does not go down to the data type component level.

The scope of the project is:

- While V2.8.2/V2.9 would be the starting point, any deprecated data types would be mapped as well to enable mapping from prior HL7 V2 versions.
- FHIR R4 will be the initial FHIR target.
- Tooling
 - Establish the publication approach/structure/tools and relationship with the existing FHIR mapping sections/tabs and collaborating with the SOA's Cross-Paradigm Interoperability Extension Implementation Guide project that has a common tooling interest and Robert Worden's TBX that enables sample mappings.
- Data Types:
 - Establish V2-FHIR data type mappings and resolve missing data type components in FHIR for V2 data type components.
- Data Type Profiling:
 - Establish FHIR data type profiles/structure definitions representing V2 data types to support V2 equivalent constructs in FHIR.
- Fields/Segments:
 - For every segment-field.datatype component in HL7 V2 to either identify
 - the equivalent core HL7 FHIR resource.attribute.datatype component, or
 - identify/propose/approve an HL7 FHIR extension that represents the HL7 V2 segment-field.datatype component to encourage consistent use rather than everybody defining their own extensions for HL7 V2 equivalents.
- Maintenance
 - Once mappings have been established, both FHIR and V2 are expected to evolve and the mappings will be kept up-to-date.
 - As the start of the project is expected to have V2.8.2 available, once V2.9 is published, it would progress using that version as the starting point.

The immediate goal is to have mappings available for data types and segments/fields that are accessible in context of FHIR and V2+ (once established) elements, and independently.

Note that:

- Data Types is a pre-requisite to Fields/Segments.
- Fields/Segments can be done any time after Data Types are done, and can be done piece-meal as needed plus based on priority/use, thus spread across multiple ballots.
- The intent is to achieve normative status of the mappings
- Detailed requirements and constraints of tooling to utilize where possible common data model will be addressed in the Tooling track.

Initially Out-Of-Scope:

- Define a FHIR profile for every V2 segment to reflect the cardinality, optionality, and conditionality of V2 segments.
 - This would only be done for the latest V2.8.2/V2.9, until there is interest to do so for earlier versions on a case by case situation.
- For every message in HL7 V2 define a corresponding HL7 FHIR profile/structure definition that reflects the full HL7 V2 message content, which can be the basis for either HL7 FHIR based services or message approaches.
 - This would only be done for the latest V2.8.2/V2.9, until there is interest to do so for earlier versions on a case by case situation.
- Value set mapping
- FHIR=>V2 considerations/guidance, particularly where it is not feasible.
- Implementation guide tailored mappings.

3.b. Project Need

As interest in representing data in HL7 V2 and HL7 FHIR consistently and predictably across implementations, and aid the transition from HL7 V2 to HL7 FHIR as needed, a clear mapping needs to exist that HL7 endorses, thus can be the starting point for everybody else to create implementation guides accordingly. At this time, everybody needs to create their own extensions where they wish to represent the richness of HL7 V2 in their implementations.

3.c. Security Risks

Will this project produce executable(s), for example, schemas, transforms, style sheets, executable program, etc. If so the project must review and document security risks.		Yes
	X	No
		Unkno wn

3.d. External Drivers

Not applicable

3.e. Project Objectives / Deliverables / Target Dates

	Target Date
Phase I: Initial pilot/prototype using select data types and segments to establish appropriate format (e.g., FHIR Mapping Language, MDMI, other)	January 2019
Phase II: For comment ballot with initial set of all data types and initial prioritized segments	2019 May WGM
Phase III: For comment ballot with complete set of data types and segments (based on progress may be adjusted)	2019 September Ballot
Phase IV: FHIR HL7 V2 extension ballot for prioritized data type components, data type profiles, and fields	2020 January WGM
Phase V: FHIR HL7 V2 extension ballot for remaining data type components, data type profiles, and fields	TBD
Phase VI: Normative ballot with complete set of mappings	TBD
Project End Date (all objectives have been met)	TBD

3.f. Common Names / Keywords / Aliases

2-To-FHIR

3.g. Lineage

Not applicable

3.h. Project Dependencies

- FHIR R4 and approach on core extensions
- If tools developed by the HL7 Cross Paradigm Interoperability Implementation Guide Extension are chosen for use in this project, else this dependency goes away.

3.i. Project Document Repository Location

Initially, documentation will be kept in Confluence here ([2-To-FHIR Project](#)), and once we understand how to publish the actual mappings, the location of those constructs will be added here and on the project page.

3.j. Backwards Compatibility

Are the items being produced by this project backward compatible?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Yes	No	Unknown	N/A					
				X						
For V3, are you using the current data types?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
(Refer to TSC position statement on new projects using R2B for more information on the current V3 data types)										
If you check 'No' please explain the reason:										
If desired, enter additional information regarding Backwards Compatibility.										
As the current mappings in FHIR are fairly general and incomplete, plus it is intended to be informational, we do not expect backwards compatibility issues.										

3.k. External Vocabularies

Will this project include/reference external vocabularies?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		Yes	No	Unknown	N/A					
					X					
If yes, please list the vocabularies:										

4. Products (check all that apply)

<input type="checkbox"/>	Non Product Project - (Educ. Marketing, Elec. Services, etc.)	<input type="checkbox"/>	V3 Domain Information Model (DIM / DMIM)
<input type="checkbox"/>	Arden Syntax	<input type="checkbox"/>	V3 Documents – Administrative (e.g. SPL)

	Clinical Context Object Workgroup (CCOW)		V3 Documents – Clinical (e.g. CDA)
	Domain Analysis Model (DAM)		V3 Documents - Knowledge
	Electronic Health Record (EHR) Functional Profile		V3 Foundation – RIM
	Logical Model		V3 Foundation – Vocab Domains & Value Sets
X	V2 Messages – Administrative		V3 Messages - Administrative
X	V2 Messages - Clinical		V3 Messages - Clinical
X	V2 Messages - Departmental		V3 Messages - Departmental
X	V2 Messages – Infrastructure		V3 Messages - Infrastructure
X	FHIR Implementation Guide		V3 Rules - GELLO
X	FHIR Profiles		V3 Services – Java Services (ITS Work Group)
X	FHIR Resources		V3 Services – Web Services (SOA)
	New/Modified/HL7 Policy/Procedure/Process		White Paper
	New Product Definition		
	New Product Family		

If you checked New Product Definition or New Product Family, please define below:

5. Project Intent (check all that apply)

	Create new standard		X	Supplement to a current standard
	Revise current standard (see text box below)			Implementation Guide (IG) will be created/modified
	Reaffirmation of a standard			Project is adopting/endorsing an externally developed IG:
	New/Modified HL7 Policy/Procedure/Process			Specify external organization in Sec. 6 below;
	Withdraw an Informative Document			Externally developed IG is to be (select one):
	White Paper (select one):			Adopted - OR - Endorsed
	Balloted Informative OR			Non-balloted WG White Paper
				N/A (Project not directly related to an HL7 Standard)

If revising a current standard, indicate the following:

- Name of the standard being revised
- Date it was published (or request for publication, or ANSI designation date)
- Rationale for revision
- The relationship between the new standard and the current standard (is it designed to replace the current standard, a supplement to the current standard, etc.)

5.a. Ballot Type (check all that apply)

X	Comment (aka Comment-Only)			Joint Ballot (with other SDOs)
	Informative			N/A (project won't go through ballot)
X	STU to Normative - OR -			Normative (no STU)

If necessary, add any additional ballot information here. If artifacts will be jointly balloted with other SDOs, list the other groups.

5.b. Joint Copyright

Check this box if you will be pursuing a joint copyright. Note that when this box is checked, a Joint Copyright Letter of Agreement must be submitted to the TSC in order for the PSS to receive TSC approval.

Joint Copyrighted Material will be produced?		Yes	X	No
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6. Project Logistics

6.a. External Project Collaboration

<p>Include SDOs or other external entities you are collaborating with, including government agencies as well as any industry outreach. Indicate the nature and status of the Memorandum of Understanding (MOU) if applicable.</p>						
<p>For projects that have some of their content already developed:</p>						
How much content for this project is already developed?				Nothing (beyond what is in HL7 FHIR mappings)		
Was the content externally developed (Y/N)?				No		
Is this a hosted (externally funded) project? (not asking for amount just if funded)						
				Yes		No

6.b. Realm

<input checked="" type="checkbox"/>	Universal	- OR -	<input type="checkbox"/>	Realm Specific
Check here if this standard balloted or was previously approved as realm specific standard				

6.c. Stakeholders / Vendors / Providers

This section must be completed for projects containing items expected to be ANSI approved, as it is an ANSI requirement for all ballots

Stakeholders	Vendors	Providers
<input checked="" type="checkbox"/> Clinical and Public Health Laboratories	<input checked="" type="checkbox"/> Pharmaceutical	<input checked="" type="checkbox"/> Clinical and Public Health Laboratories
<input checked="" type="checkbox"/> Immunization Registries	<input checked="" type="checkbox"/> EHR, PHR	<input checked="" type="checkbox"/> Emergency Services
<input type="checkbox"/> Quality Reporting Agencies	<input checked="" type="checkbox"/> Equipment	<input checked="" type="checkbox"/> Local and State Departments of Health
<input checked="" type="checkbox"/> Regulatory Agency	<input checked="" type="checkbox"/> Health Care IT	<input checked="" type="checkbox"/> Medical Imaging Service
<input checked="" type="checkbox"/> Standards Development Organizations (SDOs)	<input type="checkbox"/> Clinical Decision Support Systems	<input checked="" type="checkbox"/> Healthcare Institutions (hospitals, long term care, home care, mental health)
<input checked="" type="checkbox"/> Payers	<input checked="" type="checkbox"/> Lab	Other (specify in text box below)
<input type="checkbox"/> Other (specify in text box below)	<input checked="" type="checkbox"/> HIS	N/A
<input type="checkbox"/> N/A	<input type="checkbox"/> Other (specify below)	
	<input type="checkbox"/> N/A	
<p>Other: Indicate other stakeholders, vendors or providers not listed above.</p>		

6.d. Project Approval Dates

Affiliate Approval Date (for Affiliate Specific Projects):	"N/A"
US Realm Steering Committee Approval Date (for US Realm Specific Projects):	"N/A"
Sponsoring Work Group Approval Date:	Orders & Observations Approval Date 2018-08-22
Co-Sponsor Group Approval Date	Conformance 2018-10-09
	Patient Administration 2018-10-04
	FHIR Management Group 2018-08-29
	Financial Management 2018-11-13
	Clinical Genomics 2018-10-16
	Modeling & Methodology 2018-10-30
	Patient Care 2018-11-12
	Pharmacy 2018-11-05
	Service Oriented Architecture 2018-10-04
	Public Health 2018-10-11
	Infrastructure and Messaging 2018-12-13
V2 Project: V2 Management Group Approval Date:	V2 Approval Date 2018-12-14
FHIR Project: FHIR Management Group Approval Date:	FMG Approval Date 2018-08-29

Architectural Review Board Approval Date:					"N/A"					
Steering Division Approval Date :					SD Approval Date 2018-10-01					
Last Work Group Health:		Green		Yellow		Red				
PBS Metrics and Work Group Health Reviewed? (required for SD Approval if not green)		Yes		No						
Technical Steering Committee Approval Date:					TSC Approval Date CCYY-MM-DD					
TSC has received a Copyright/Distribution Agreement (containing the verbiage outlined within the SOU), signed by both parties.										
		Yes		No		N/A				