

CIMI Sponsored Investigative Study HL7 Project Scope Statement (PSS) for



Common Health Interoperability Model (CHIM) And Practitioner's Guide for HIE Interoperability

Using The Open Group IT4IT[™] Value Chains and Reference Architecture Informed by FHA FHIM and HL7 CIMI / DCMs / EHR-S FM,

IHE, NIST & ONC Scenarios, Standards and Security Frameworks.

Using MDHT-MDMI to create Implementation Guides for

CDA, NIEM, FHIR and XML/JSON messages/service API

Call for Participation and Talking Points for HL7 WG Meeting, Jan 10-15, 2016 (Draft-I) The Open Group Meeting, Jan 25-28, 2016 Period-of-Performance: Jan-Sep 2016

Steve Hufnagel PhD, Facilitator, 703-575-7912, Shufnagel@ApprioInc.oom

REQUESTED ACTION: Send questions/comments to facilitator

1/9/2016 This investigative study is not currently "sponsored" by a Federal Agency

The Open Group Healthcare Forum can ad value to the Common Health Interoperability Model (CHIM) at HL7

- The Open Group IT4IT™ Value Chains & Reference Architecture can add architectural rigor
- We are vendor-neutral and consensus-driven. We are independent and do not represent any standard or technology
- Forum members are from key organizations around the globe, represent different stakeholder groups, and contribute innovative thinking
- We combine a business and technology orientation with structured approaches—using models, frameworks and architecture-thinking—to help solve real-world business problems
- We view health and healthcare from a person-centric perspective. We think health data should follow the person. We reject point-to-point solutions in favour of longitudinal ones
 - We focus on making existing standards work and encourage collaboration among standards development organizations (SDOs)
 - In short, our orientation to the interoperability problem is holistic and systems-oriented. This approach is aligned with efforts to address the broad goals expressed in the IOM "triple aim" and the "learning healthcare system." [Jason Lee, The Open Group Healthcare Forum]

The Open Group IT4ITTM Value Chains and Reference Architecture Within HL7 SAIF CD



- "The HL7 Service-Aware Interoperability Framework Canonical Definition (SAIF CD) is an architecture for achieving interoperability; but, it is not a whole-solution design for Enterprise architecture management."
- "SAIF CD must be adapted to an organization's implementation requirements through the production of a SAIF implementation Guide."
- The Health IT4ITTM Business Value Chains and Health Information Exchange (HIE) Reference Architecture is intended to be the <u>HIE Interoperability Practitioner's SAIF Implementation Guide</u> for "organizations building large-scale integrated health IT infrastructures at the national level."
- This Practitioner's Guide will address the implementers' conundrum of "models, models everywhere; but, I need to develop, test and deploy an interoperable solution architecture now."

Executive Summary (Vision, Goal)

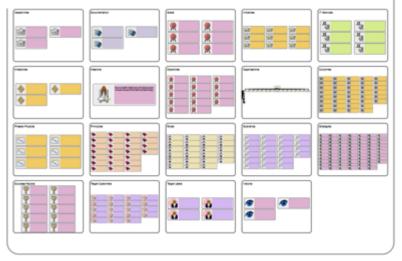


- Our vision is to allow for the development of secure free-flow of medical information to become a reality, thereby creating a patient/clinician friendly environment; where currently, standards in health IT are numerous and varied across systems, making a smooth Exchange among EHR related systems difficult.
- Our *goal* is for <u>Data Objects</u> to flow across Health IT Systems and their HIE <u>Integration</u> <u>Components</u> supporting Health Business <u>Value Chains</u>; where,
 - a Common Health Interoperability Model (CHIM) is the foundation of an *authoritative* architectural model of the health information landscape and benchmark for health IT standards; and where,
 - we instantiate the Open Group IT4IT Value Chain and Reference Architecture with HL7 EHR related System Models, System Components and Integration Components.
- » IT4IT Value Chains define use cases for strategy, requirements, portfolio, deployment, operations, change and error recovery.

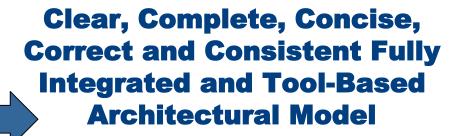
Vision/Goal: Common Health Interoperability Model "HIE Interoperability: A Practitioner's Approach"



Health IT4IT™ Business Value Chains and HIE Reference Architecture



Architecture identifies Laws, Policies, Health IT Strategy, Health IT Roadmap, Interoperability Standards Advisory for a learning health system to improve the patient experience of care, to improve the health of populations, and to reduce the per capita cost of health care.



... faster, better, cheaper HIEs

- » Agile, Aligned, Interoperable
- Strategic, Standards Based, Simple
- » Knowledge Driven, Reliable, Reusable
- Accessible, Secure, Sustainable

Executive Summary (Objective, Approach)

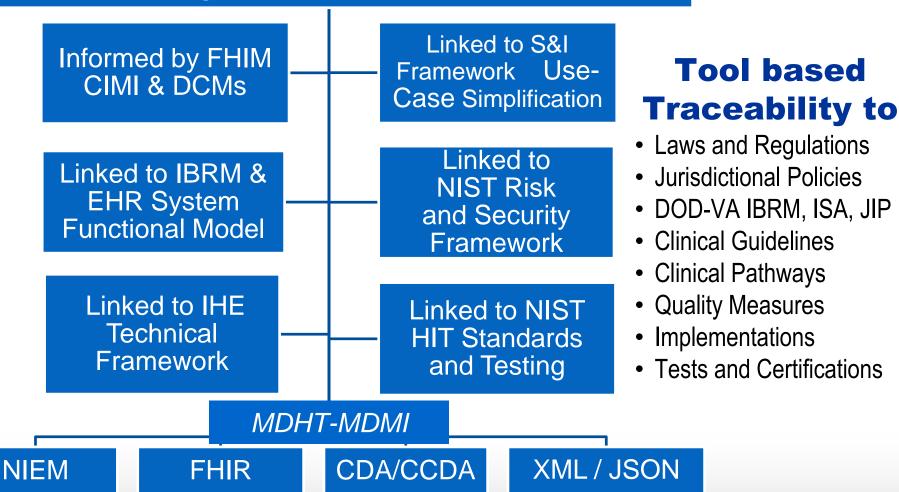


- » The *objective*, of this 9 month HL7 investigative study, is to
 - demonstrate that we can automatically transform an instance of one data standard into an instance of another data standard, based on a single shared & documented understanding of information & functional requirements, automatically.
 - This capability will support actual semantic interoperability among stakeholders currently prevented from such interoperability by divergent standards,
 - and it will do so in a way that enforces consistent semantics across any community that uses it.
 - Demonstrate Open Group IT4IT™ instantiated with Health IT models and standards, including
 - Common Information Modelling Initiative (CIMI) archetype models,
 - Federal Health Information Model (FHIM) and Detailed Clinical Models (DCMs) UML Models
 - Demonstrate archetype versus UML Modeling styles.
 - Demonstrate UML archetype Modeling Language profile models and CIMI reference models.
 - Document processes, products and tools in "Practitioner's Guide for HIE Interoperability."
 - Develop a comprehensive HL7 FY2017 Project Scope Statement / Program Plan
- The *approach* will instantiate The Open Group IT4IT™ Reference Architecture and Value Chain-based operating model with Health IT models, Frameworks and artifacts, following a cyclic Agile build, test, evaluate, document and re-plan methodology.

Objective: Common Health Interoperability Model Business Value Chains & HIE Reference Architecture







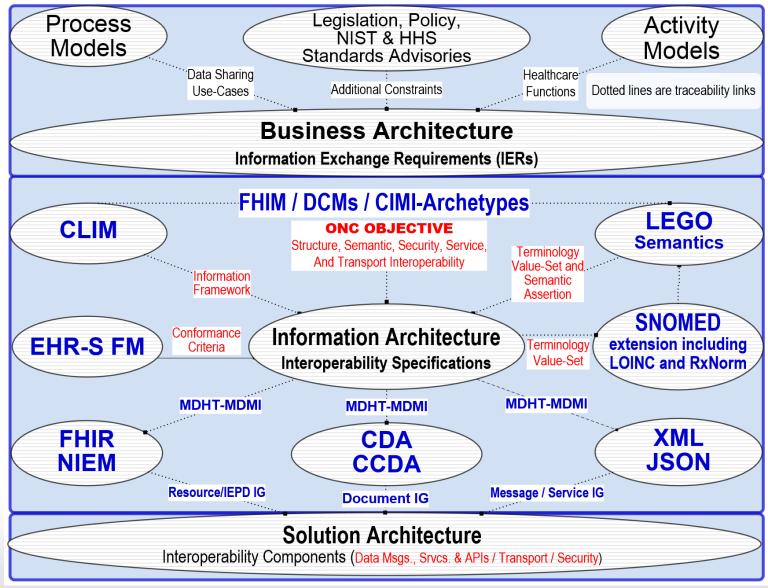
Objective is consistent data formats and semantics across implementation paradigms IAW ONC 2015 Interoperability Roadmap

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Approach: Common Health Interoperability Model Model Driven Architecture (MDA)





Schedule: Common Health Interoperability Model Business Value Chains & HIE Reference Architecture



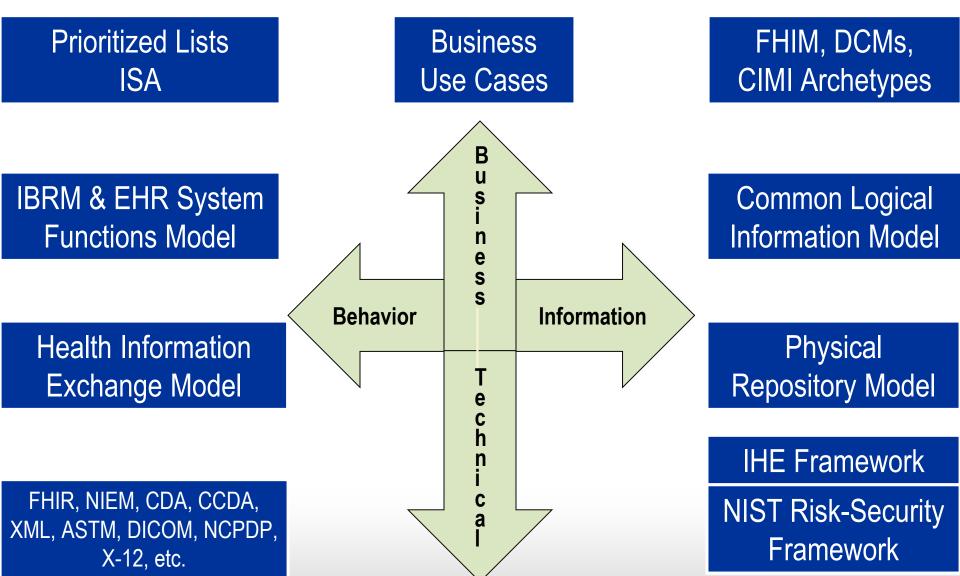
- » Jan/Feb 2016 investigative study HL7 Project Scope Statement (PSS)
- May/Aug 2016 Demonstration and draft FY2017 Program Plan
- » Sept/Oct 2016 Comprehensive FY2017 HL7 Project Scope Statement
- Sept/Oct 2017 HL7 Draft Standard for Trial Use (DSTU) 1
- Sept/Oct 2018 HL7 Draft Standard for Trial Use (DSTU) 2
- » Sept/Oct 2019 HL7 Normative Ballot

Acronyms

CDA	Clinical Document Architecture	IG	Implement Guide		
CCDA	Consolidated CDA	IHE	E Integrating the Healthcare Enterprise		
CLIM	Common Logical Information Model	IM	Information Management		
CMS	Centers for Medicare & Medicaid Services	ISA	Interoperability Standards Advisory		
DAF	Data Access Framework	IT	Information Technology		
DBA	Database Analyst	JIP	P (DOD-VA) Joint Interoperability Plan		
DCM	Detailed Clinical Model	MDH	Model Driven Health Tool		
CIMI	Clinical Information Modelling Initiative	MDN	MI Model Driven Message Interoperability		
EHR-S FM	EHR System Functions Model	NIE	M National Information Exchange Model		
EHR-S FIM	EHR System Functions and Information Model	NIS	National Institute of Standards and Technology		
FHIM	Federal Health Information Model	NLN	M National Library of Medicine		
HIE	Health Information Exchange	ONG	C US Health Office of the National Coordinator		
HIT	Healthcare Information Technology	S&I	Standards and Interoperability		
HHS	Health and Human Services Agency	SDC	O Standards Development Organization		
IBRM	DoD-VA Integrated Business Reference Model	SME	E Subject Matter Expert		
ICIB	Interagency Clinical Informatics Board	V2	2 HL7 Version 2 Messaging		
		VLE	Virtual Lifelong Electronic Record		

Health IT4IT Value Chains & Reference Architecture Model-Driven Architecture (MDA)





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Software Development Lifecycle (SDLC) Health IT MDA Users and Uses

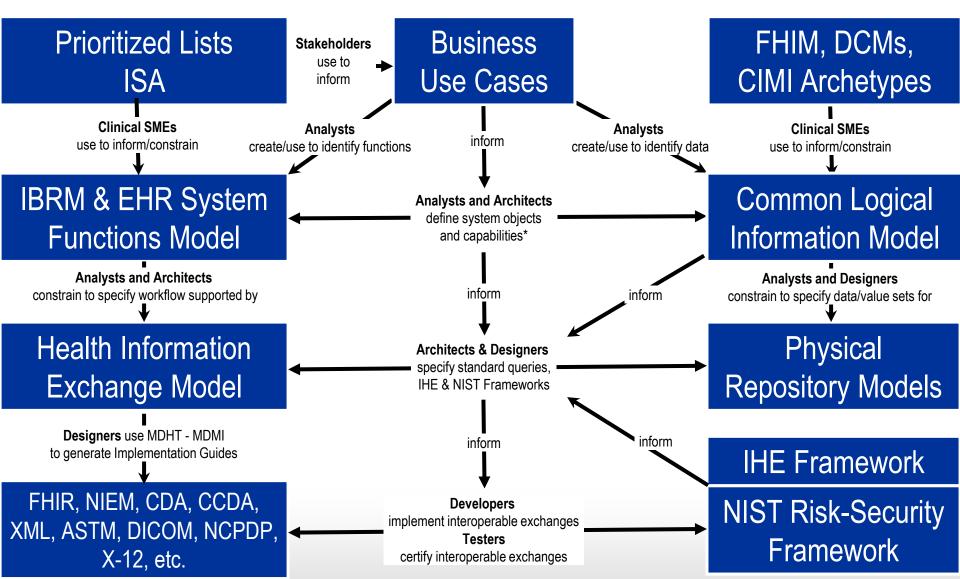


Notional User-Story / Use Case

- 1. <u>Clinician Lists</u> are prioritize by Health Data Sharing (HDS) initiatives; where, the lists inform
- 2. <u>Business Use Cases</u> (UCs) developed by Analysts; and, the UCs inform / constrain
- 3. <u>System Objects, Capabilities, Services, and Information Exchange Requirements (IERs)</u> described by Analysts and Architects, who are informed by
 - » IBRM and/or EHR-S System Functional Model
 - » CLIM informed by FHIM, HL7 Detailed Clinical Models (DCMs) and CIMI models
- 4. <u>System Physical Repositories</u> are specified by Architects and Designers, based on
 - » System Objects, Capabilities, and Services specified as EHR-S FM & FHIM subsets.
- 5. <u>System Information Exchanges</u> are specified by Architects & Designers, based on
 - » MDHT-MDMI (FHIM) generated Implementation Guides (IGs)
 - » for CDA, NIEM, FHIR and XML/JSON messages/service API
 - » FHIM-based queries/APIs to obtain required data from Physical Repositories.
 - » NIST Security Framework and IHE Technical Framework to manage the exchanges.
 - » NIST SP-800 Risk Assessment/Management Framework to manage network risk.
- 6. <u>Implementation Guides</u> (IGs) can be specified by analysts/engineers using MDHT-MDMI
- 7. Developers/testers use IGs to construct/test interoperable information exchanges.

Software Development Lifecycle (SDLC) Health IT MDA Users and Uses





1/9/2016

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Significant Milestones



2001-2009 Bush Administration

- 2004 ONC Established
- 2005 HITSP established Dec 2005 through Apr 2009

2009-2017 Obama Administration

- 2009 ARRA:HITECH Act / VLER Program established
- 2009 FHIM established, Tim Cromwell & Nancy Orvis, proponents
 - HITSP Lesson Learned → MDHT/FHIM needed to empower Developers
- 2011 DOD-VA iEHR / IPO established by NDAA / S&I Framework Established by ONC
- 2011 MDHT capable of doing CDA Implementation Guides
- 2012 FHIM-based Immunization Information Model with CDC
- 2012 MDHT/FHIM Immunization Implementation Guide/Spec for CDC
- 2013 FHIM-based Population Health Information Model with CDC
- 2013 DoD-VA Data Sharing Accelerator Initiative, VistA & DHMSM Modernization announced
- 2013 MDHT capable of doing NIEM Implementation Guides
- 2015/6 MDHT capable of doing FHIR Profile / implementation Guide
- 2017/9 Common Health Interoperability Model & Practitioner's Guide for HIE Interoperability

HL7 Investigative Study Project Scope Statement (PSS) and Call for Participation: Common Health Interoperability Model (CHIM) and Practitioner's Guide for HIE Interoperability

Steve Hufnagel PhD, Facilitator, 703-575-7912, SHufnagel@ApprioInc.com **REQUESTED ACTION:** Please send questions/comments to facilitator.

1. Project Name and ID

Common Health Interoperability Model (CHIM) And Practitioner's Guide for HIE Interoperability	Project ID: it		
☐ TSC Notification Informative/DSTU to Normative Date :			
☐ Jan-Sep 2016 Investigative Project Date : January 9, 2016 DRAFT			

2. Sponsoring Group(s) / Project Team

Primary Sponsor/Work Group (1 Mandatory)	CIMI			
Co-sponsor Work Group(s)	EHR, PC, CIC, SOA			
Co-Sponsor Group Approval Date CCYY-MM-DD				
Indicate the level of involvement that the co-sponsor will have for this project:				
Request formal content review prior to ballot				
Request periodic project updates. Specify period: Monthly, at WGMs, etc.				
Other Involvement. Specify details here:				

Project Team:		
Project facilitator (1 Mandatory)	Steve Hufnagel	Facilitator
	Stan Huff	CIMI Co-chair
	Mark Janczewski	EHR Co-chair
	Jay Lyle	PC co-chair
		CIC co-chair
		SOA co-chair
	Gary Dickinson	S&I Simplification co-chair
	Nancy Orvis	DoD Proponent*
	Bob Bishop	-
	Nona Hall	_
	Gail Kalbfleisch	-
	Jason Lee	The Open Group Healthcare
		Forum
	* This project i	s not currently "sponsored" by a
	federal agency.	
Other interested parties and their roles		
Multi-disciplinary project team (recommended)		
Modeling facilitator	Steve Hufnagel	
Publishing facilitator		
Vocabulary facilitator		
Domain expert rep		

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Business requirement analyst	
Conformance facilitator (for IG projects)	
Other facilitators (SOA, SAIF)	

Implementers (2 Mandatory for DSTU projects)
NOT APPLICABLE FOR INVESTIGATIVE Project

3. Project Definition

3.a. Project Scope

- Our vision is to allow for the development of secure free-flow of medical
 information to become a reality, thereby creating a patient/clinician friendly
 environment; where currently, standards in health IT are numerous and varied across
 systems, making a smooth Exchange among EHR related systems difficult.
- Our **goal** is for <u>Data Objects</u> to flow across Health IT Systems and their HIE Integration Components supporting Health Business Value Chains; where,
- a Common Health Interoperability Model (CHIM) is the foundation of an authoritative architectural model of the health information landscape and benchmark for health IT standards; and where,
- we instantiate the Open Group IT4IT Value Chain and Reference Architecture with HL7 EHR related System Models, System Components and Integration Components.
- IT4IT Value Chains define use cases for strategy, requirements, portfolio, deployment, operations, change and error recovery.
- The objective, of this 9 month HL7 investigative study, is to
- demonstrate that we can automatically transform an instance of one data standard into an instance of another data standard, based on a single shared & documented understanding of information & functional requirements, automatically.
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3.b. Project Need

The Need to Architect the Health Information Standards Landscape

<u>Standards in health IT are numerous and varied across systems, making a smooth exchange of EHRs difficult;</u> where, Secure exchange of meaningful healthcare information requires that parties agree upon a common application of standards that define the type of content being exchanged and the manner in which this takes place. But currently, numerous standards exist. There are different standards that define content from their most basic elements and expected values through their packaging and transmission frameworks. There are numerous development organizations that support health information technology. It is not uncommon to perform a target scan of the environment and discover relevant healthcare standards supported by a standards development organization whose primary purpose is other than healthcare. Numerous standards utilized for the same purpose often exist within a single standards development organization. Choices of standards, standards bodies, and archetypes appear to have a geographical component as well with nations tending to favor one approach over the other.

The fluidity of the landscape in health information technology and the high level of information security that is needed to protect patient information has created a very difficult environment. For instance, it is currently much harder for systems to exchange a medical record than it is for an ATM machine to exchange information regarding identification of an account and available credit.

An authoritative architectural model of the present international health information landscape would benefit the health information technology vendor community. It would create a benchmark for health IT standards, allowing for the development of a secure free-flow of medical information to become a reality and creating a patient/clinician friendly environment. [Gail Kalbfleisch, FHA Director]

Interoperability is not simply a technical issue, a leadership issue, an organizational issue, or a money issue. Rather, it is all of these, considered together in an integrated manner. To do this, we simplify by representing the fundamental structure of health care systems in a landscape in which key actors produce essential actions. This simplification makes it is easier to identify barriers and gap-filling steps necessary for improvement and advancement In this way we can see both gaps and benefits. In short, our orientation to the interoperability problem is holistic and systems-oriented. We do not believe solutions are merely technical. Rather, they build on a keen understanding of the interdependence of the key elements of the healthcare landscape. This approach is aligned with efforts to address the broad goals expressed in the "triple aim" and the "learning healthcare system." [Jason Lee, The Open Group Health Forum]

The US Institute of Medicine (IOM) describes a **learning healthcare system** as one that is "designed to generate and apply the best evidence for the collaborative healthcare choices of each patient and provider; to drive the process of discovery as a natural outgrowth of patient care; and to ensure innovation, quality, safety, and value in health care. IOM 2012

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¹ The US-based Institute for Healthcare Improvement (IHI) coined the term "**Triple Aim**" in 2007 to refer to "the simultaneous pursuit of improving the patient experience of care, improving the health of populations, and reducing the per capita cost of health care. . . The IHI Triple Aim framework often functions as a statement of purpose for health care system transformation that will better meet the needs of people and patients. Its successful implementation will result in fundamentally new systems contributing to the overall health of populations while reducing the cost to society."

⁽http://www.ihi.org/communities/blogs/ layouts/ihi/community/blog/itemview.aspx?List=81ca4a47-4ccd-4e9e-89d9-14d88ec59e8d&ID=63, accessed October 28, 2015.)

The Healthcare Forum at The Open Group can help this Health IT work at HL7 because:

- → The Open Group IT4ITTM Value Chains & Reference Architecture can add architectural rigor
- » We are vendor-neutral and consensus-driven. We are independent and do not represent any standard or technology
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- "SAIF CD must be adapted to an organization's implementation requirements through the production of a SAIF implementation Guide."
- » The Health IT4IT™ Business Value Chains and Health Information Exchange (HIE) Reference Architecture is intended to be the <u>HIE Interoperability Practitioner's SAIF Implementation Guide</u> for "organizations building large-scale integrated health IT infrastructures at the national level."
- » This Practitioner's Guide will address the implementers' conundrum of "models, models everywhere; but, I need to develop, test and deploy an interoperable solution architecture now."

3.c. Success Criteria

Approved FY2017 comprehensive PSS

3.d.Project Ri	isks			
Risk Description:	TBD in FY201	.7 PSS		
Impact:	☐ Critical	Serious	☐ Significant	Low
Likelihood:	☐ High	☐ Med	Low	
Risk Type:	Requirements	Resources	☐ Social-Political	☐ Technology
Risk To HL7:	☐ Internal to HL7		External to HL7	
Mitigation Plan:				

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3.e. Security Risks TBD in FY2017 PSS

Will this project produce executable(s), for example, schemas, transforms,	☐ No	Unknown
stylesheets, executable program, etc. If so the project must review and		
document security risks.		

3.f. External Drivers

DoD and VA EHR modernization and interoperability, CDC Public Health initiatives, CMS and FDA initiatives.

3.g. Project Objectives / Deliverables / Target Dates

	Target Date
First "work-in progress" Investigative Project demo / lessons-learned	May 2016 HL7 WG mtg.
Demonstration, FY2017 Program Plan	June-Aug 2016
Comprehensive FY2017 Common Health Interoperability Model (CHIM) PSS for HL7 review/processing	Sep 2016 HL7 WH mtg.
Example Health IT4IT CLIM informed by FHIM, CIMI, DCMs	
Example Health IT4IT Business Value Chains & Reference Architecture	
• Example MDHT-MDMIIG for CDA, NIEM, FHIR and XML/JSON	
messages/service API	
Prototype Users Guide for Common Health Interoperability Model (CHIM) & Tools	
FY2017 Work Breakdown Structure (WBS) / Program Plan	
Risks and risk mediations identified	

3.h.Common Names / Keywords / Aliases

CIMI, DCM, FHIM, HIT, CLIM, NIEM, FHIR, CDA, V2, IT4IT, HL7, Open Group

3.i. Lineage

NA

3.j. Project Requirements

The Investigative Project will demonstrate

- The Open Group IT4IT processes and products including the HIT-CLIM Specification of "Common Clinical Data Set" IAW ONC "Connecting Health and Care for the Nation: A Shared Nationwide Interoperability Roadmap"
- Traceability to
 - Use Case Simplification (S&I Framework Project)
 - IHE Technical Framework
 - EHR-S Functional Model
 - NIST Security and Risk Framework
 - o Interoperability Standards Advisory, Strategy and Roadmap
- XMI support for Use Case Authoring Tool (UCAT) and/or UML SDLC Tools, such as Sparx EA, IBM RSA, MagicDraw, NIST Prometheus, open source Papyrus

3.k. Project Dependencies

FHIM, CIMI, DCMs, EHR-S FM, FHIR, OpenGroup IT4IT, S&I Framework Use Case Simplification, eclipse.org MDHT

3.I. Project Document Repository Location

CIMI wiki

3.m. Backwards Compatibility

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Click here to go to Appendix A for more information regu			oject instruct		□ Unknown	⊠ N/A
Are the items being produced by this project	t backward coi	mpatible?		;5 <u> 110</u>	☐ OHKHOWH	□ IN/A
For V3, are you using the current data type:	s?		⊠ Ye	es 🗌 No		
If you check 'No' please explain the reason:						
3.n.External Vocabularies						
	acrdina this soctio	.				
Click here to go to Appendix A for more information reg Will this project include/reference external v		11.	⊠ Ye	es No	Unknown	□ N/A
If yes, please list the vocabularies: Vocabu		CIMI, FH			as, but not li	mited to,
SNOMED, LOINC, RxNorm		,			•	•
4. Products						
Non Product Project- (Comprehensive HL7 PSS	for FY2017)	□ V3 Dor	main Informa	tion Model (DIM / DMIM)	
Arden Syntax	101112011)		cuments - A			
☐ Clinical Context Object Workgroup (CCOW)		☐ V3 Doo	cuments - C	linical (e.g. C		
Domain Analysis Model (DAM)	21 -		cuments - Kn			
☐ Electronic Health Record (EHR) Functional Prof ☐ Logical Model	ile		undation – RI		ns & Value Sets	
☐ V2 Messages – Administrative			ssages - Adr		is a value octs	
☐ V2 Messages - Clinical			ssages - Clir			
☐ V2 Messages - Departmental			ssages - Dep			
☐ V2 Messages – Infrastructure ☐ FHIR Resources			ssages - Infra es - GELLO	astructure		
☐ FHIR Profiles				Services (IT	S Work Group)	
New/Modified/HL7 Policy/Procedure/Process			vices – Web			
New Product Definition						
New Product Family						
5. Project Intent (check all that ap	ply)	Cumple.	mont to a gu	rrant atom do		
☐ Create new standard ☐ Revise current standard (see text box below)			ment to a cur elementation		u vill be created/mo	dified
☐ Reaffirmation of a standard		Project	is adopting/e	endorsing an	externally develo	
					Sec. 6 below; (select one):	
N/A (Project not directly related to an HL7 Stand	dard)	☐ Adopte	d - OR -	☐ Endorse	d	
Comprehensive FY2017 PSS for	·	·				
Common Health Interoperability Model (CHIM)						
And Practitioner's Guide for HIE Interoperability						
5.a. Ballot Type (check all that a	(vlaar					
☐ Comment Only for Investigative Project	11.77	☐ Normat	ive (no DSTI	J)		
☐ Informative		☐ Joint Ba	allot (with oth	ner SDOs or	HL7 Work Groups	s)
DSTU to Normative	FV2047 DCC 4		roject won't g			
Investigative Project in support of a comprehens	IVE F12017 P33 1	o deline DS	TO and uiti	matery a no	rmative panot.	
E.b. Jaint Canywight						
5.b.Joint Copyright						
Check this box if you will be pursuing a joint copyright. submitted to the TSC in order for the PSS to receive TS		s box is chec	ked, a Joint	Copyright Le	etter of Agreemen	t must be
☐ Joint Copyrighted Material will be produced TE	D for FY2017	PSS				
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6. Project Logistics

6.a. External Project Collaboration

		nal entities you are col			
government age	ncies as well	as any industry outreac	h. Ir	ndicate the	e nature and
status of the	status of the Memorandum of Understanding (MOU) if applicable.				
TBD for FY2017 P	SS				
For projects that ha	ve some of their o	ontent already developed:			
How much content				100% for Investigative	
		о ,		Project	-
Was the content ex	ternally developed	YES		_	Group IT4IT
				_	Architecture,
					NIST Security &
				Risk Frame	-
					Framework,
					implification
Date of external co	ntant ravious by the	ADD2 TDD for EV2017 DSS			date CCYY-MM-DD
		e ARB? TBD for FY2017 PSS	iat if	X Yes	No □ No
	(ternally funded) p	project? (not asking for amount	just if	⊠ res	L NO
funded)					
6.b.Realm					
	Dooley Ones'f				
Universal	Realm Specific	is standard balloted or was previously a	nnroyod s	e roolm enocific	etandard
	ı	ils staridard balloted of was previously ap	pproveu a	is realiff specific s	stariuaru
	TBD				
6.c. Project A	pproval Dates				
	.pp. 0 . u. 2 u. 0				
F					
Affiliate/US Realm		val Date			
	(for US Realm Specific Projects) USRTF Approval Date CCYY-MM-DD				
Sponsoring Work Group Approval Date wg A					te CCYY-MM-DD
FHIR Project: FHIR	R Management Gr	oup Approval Date	FMG 2	Approval Da	ate CCYY-MM-DD
Steering Division A	pproval Date		SD A	pproval Dat	te CCYY-MM-DD
		ealth Reviewed? (required for SD	Appro	val)	☐ Yes ☐ No
Technical Steering					ate CCYY-MM-DD
TSC has received a Copyright/Distribution Agreement (which contains the verbiage ☐ Yes ☐ No					
outlined within the SOU), signed by both parties. NOT APPLICABLE FOR INVESTIGATIVE PROJECT					
	NOT APPLICA	BLE FOR INVESTIGATIVE PRO	JJECI		
6.d.Stakehol	ders / Vendors	s / Providers			
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Stakeholders	pieted for projects con	taining items expected to be ANSI appro Vendors	Provi		rement for all ballots
☐ Clinical and Public H	ealth Laboratories	☐ Pharmaceutical			Health Laboratories
☐ Immunization Regist		☐ EHR, PHR		mergency Service	
Quality Reporting Ag		Equipment			partments of Health
☐ Regulatory Agency		☐ Health Care IT		edical Imaging Se	
☐ Standards Developm	ent Organizations	☐ Clinical Decision Support			ons (hospitals, long term
			home care, ment	tal health)	
☐ Payors ☐ Lab ☐ O ☐ Other (specify in text box below) ☐ HIS ☐ N.			ther (specify in te	xt box below)	
N/A Other (specify in text box below)			IN/	Α	
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Federal Health Architecture,	□ N/A	
Federal Agencies and their	!	
Commercial Partners		

6.e. Synchronization With Other SDOs / Profilers

Check all SDO / Profilers which your project deliverable(s) are associated with.				
☐ ASC X12	☐ CHA	LOINC		
☐ AHIP	DICOM	☐ NCPDP		
□ ASTM	☐ GS1	□NAACCR		
☐ BioPharma Association (SAFE)	☐ IEEE	☐ Object Management Group (OMG)		
☐ CEN/TC 251	│	☐ The Health Story Project		
☐ CHCF	☐IHTSDO	□WEDI		
CLSI	☐ ISO	☐ Other (specify below) The Open Group		
		Healthcare Forum		

This investigative project is intended to document processes and products, using examples from the well understood Immunization Management, Lab and Transfer of Care domains; as such, the project may duplicate existing IGs as a verification and validation of the approach.

Acronyms

CDA	Clinical Document Architecture		IHE	Integrating the Healthcare Enterprise
CCDA	Consolidated CDA	Г	IM	Information Management
CLIM	Common Logical Information Model	Г	ISA	Interoperability Standards Advisory
CMS	Centers for Medicare & Medicaid Services	Г	IT	Information Technology
DAF	Data Access Framework	Г	JIP	(DOD-VA) Joint Interoperability Plan
DBA	Database Analyst		MDHT	Model Driven Health Tool
DCM	Detailed Clinical Model		MDMI	Model Driven Message Interoperability
CIMI	Clinical Information Modelling Initiative	Г	NIEM	National Information Exchange Model
EHR-S FM	EHR System Functional Model	Г	NIST	National Institute of Standards and Technology
FHIM	Federal Health Information Model	Г	NLM	National Library of Medicine
HIE	Health Information Exchange	Г	ONC	Office of the National Coordinator
HIT	Healthcare Information Technology	Г	S&I	Standards and Interoperability
HHS	Health and Human Services Agency	Г	SDO	Standards Development Organization
IBRM	DoD-VA Integrated Business Reference Model		SME	Subject Matter Expert
ICIB	Interagency Clinical Informatics Board		V2	HL7 Version 2 Messaging
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