

HL7 EHR Work Group Interoperability Sub-Group



Proposed US Realm Federal Health Architecture (FHA) EHR System Functional Model (EHR-S FM) Profile FHA EHR-S FM Profile

Presented to:

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Mission Needs Statement FHA EHR-S FM Profile

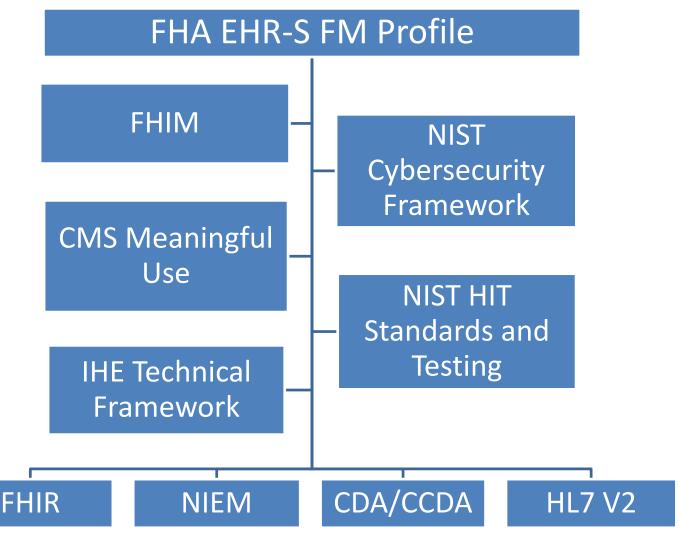


- Advance the national agenda for health IT
- Facilitate use of HHS mandated standards
 - rapidly and efficiently implement government-wide solutions for interoperable and secure health information exchange (HIE) that address federal agency business priorities while protecting citizen privacy.
 - efficient coordination of shared services.
- Empower federal agencies'
 - strategic planning, business analysis and architecture
 - adoption of nationally-recognized standards and policies for
 - use of efficient, secure HIE.



Conceptual View *FHA EHR-S FM Profile*







Approach *FHA EHR-S FM Profile*



HL7 tool resident *FHA EHR-S FM Profile*, incorporating:

- S&I Framework Use-Cases Simplification Framework, including
 - AHIC/HITSP use cases, NIST/CDC immunization use case,
 - Others as requested by Federal Agencies
- FHA Federal Health Information Model (FHIM), with bindings to
 - NLM's US Extension to SNOMED CT, LOINC, RxNorm, NCPDP etc.
 - HL7 Fast Healthcare Interoperability Resources (FHIR)
 - HL7 & CIMI detailed clinical models and archetypes
- CMS Meaningful Use objectives and criteria
- Clinical guidelines, pathways and quality measures which connect HIT to clinicians
- Implementation guides and reference implementations considering
 - Integrating the Healthcare Enterprise (IHE) Technical Framework
 - Healthcare-services platform-independent software-module APIs
 - NIST Cybersecurity Framework, Standards and Testing



Tool SupportFHA EHR-S FM Profile



FHA EHR-S FM Profile in XML/XMI format as FHA GFI supporting Model Driven Architecture, Design, Test, and Certification using:

- IBM Rational Software Architect (RSA)
- Sparx Enterprise Architect (EA)
- Open Source Papyrus
- Open Health Tools (OHT) Model Driven Health Tool (MDHT)
 - CDA, CCDA, NIEM, FHIR, HL7 V2 Implementation Guides
- NIST sponsored Prometheus Use Case Tool (UCT)
- Others as requested by Federal Agencies.



Schedule *FHA EHR-S FM Profile*



- Sept/Oct 2015 HL7 Project Scope Statement
- Sept/Oct 2016 HL7 Immunization-Prototype Comments Only Ballot
- Sept/Oct 2017 HL7 Informative Ballot
- Sept/Oct 2018 HL7 Draft Standard for Trial Use (DSTU) Ballot 1
- Sept/Oct 2019 HL7 Draft Standard for Trial Use (DSTU) Ballot 2
- Sept/Oct 2020 HL7 Normative Ballot



Benefits *FHA EHR-S FM Profile*



FHA EHR-S FM Profile enhances the national agenda for health IT by

- Open and transparent national HIE interoperability via SDO participation
- Empowering federal agencies and their contractors to rapidly and efficiently implement government-wide solutions for interoperable and secure health information exchange (HIE) that address federal agency business priorities while protecting citizen privacy.
- Providing Full Lifecycle Traceability
 - Clear, complete, concise, correct, consistent model driven arch./design/test/cert.
 - Consolidated HHS:ONC endorsed HIT artifacts in a freely accessible tool form.
- Supporting open-source development, education, training and innovation.
- Being a precursor to HL7/ISO/CERN EHR-S FM Release 3



HL7 Value Proposition *FHA EHR-S FM Profile*



FHA EHR-S FM Profile supports HL7 Roadmap:

- 1. Expand, reinvigorate, and streamline HL7's production, processes, technologies and products **YES**
- 2. Evaluate HL7's competitive environment and define HL7's roles, positions and actions **YES**
- 3. Enhance communication and outreach: make HL7 more useable, useful and understandable and share the ideas worldwide **YES**
- 4. Embrace EHR/Electronic Health Record System (ERH-S)/Personal Health Record (PHR) and Public Health Management capabilities as the focal point of technical development of health informatics standards **YES**
- 5. Connect to the clinicians, an essential HL7 community. YES



Requested Action *FHA EHR-S FM Profile*



FHA sponsorship under FHIM contract to:

- 1. Proceed with HL7 Project Scope Statement
- 2. Engage with Agency proponents/stakeholders
- 3. Submit periodic articles to
 - HealthIT.gov Newsletter and FHA The Pulse newsletter
 - Professional and Trade journals
- 4. Participate in HL7, IHE and HIMSS "Connectathons"
- 5. Present, promote and "Invite Participation" at professional conferences and otherwise promote

FHA EHR-S FM Profile



Stakeholders FHA EHR-S FM Profile (Proposed, Consent Pending)



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Sponsor

Gail A. Kalbfleisch Director, Federal Health Architecture,

Proponents

- Steven Posnack, Director, ONC Director, Office of Standards and Technology
- Nancy Orvis, DHA,
- Catherin Hoang, VA,
- Nona Hall, IPO
- Rob Snelick, NIST
- Bob Deaderly, CMS