

HL7 EHR Interoperability WG Projects in Progress

Co-Facilitators:

Gora Datta, Gary Dickinson

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1A – EHR Interop Projects

Joint Initiative Council

- Convened Jointly by ISO TC215, CEN TC251, HL7, CDISC, IHTSDO
- Submitted “Standards Convergence” as ISO TC215 New Work Item Proposal
 - October 2009, Durham, NC
 - On recommendation from JIC Co-Chairs Don Newsham and Melvin Reynolds
- Status: Complete
- Future: May request joint Work Item status (joint ballot)

1B – EHR Interop Projects

ISO TC215

- Title: “Standards Convergence to Promote EHR Interoperability”
- ISO New Work Item Proposal (Form 4) to TC215
 - Target: ISO Technical Specification (1st Stage Normative)
- Status:
 - Presented to Work Groups 1 (Data Content) and 8 (EHR Requirements) at TC215 Meeting, 18-21 October, Durham, NC
 - Accepted as Preliminary Work Item by full TC215 Plenary, per WG1 recommendation
 - Out for 90-day New Work Item Proposal (NWIP) Ballot on 8 January 2010
- EHR Interop Leads: Gary Dickinson, Gora Datta

EHR Interoperability WG – Standards Convergence In Discussion

- US HIT Standards Committee
- US ANSI HIT Standards Panel, Technical Committees, Tiger Teams
- US National eHealth Collaborative
- US National Institute for Standards and Technology
- Health Level Seven Technical Steering Committee, Architectural Review Board
- ISO TC215 – Work Groups 1 and 8
- European Commission Mandate 403 on eHealth Interoperability
- Canadian Health Infoway
- UK National Health Service – Connecting for Health
- Standards Australia

1C – EHR Interop Projects

ANSI HITSP

- Foundations Framework Committee offered Simplification Strategy – based on EHR Interop work – to HITSP (Feb 2009)
- HITSP has now incorporated several aspects of Strategy
- Data Architecture Tiger Team
 - 15 Use Cases: ONC/AHIC (2006-09) + Clinical Research
 - USHIK Registration of All Data Elements (Attributes) + Templates
- Work anticipated to reduce 26 Capabilities to ONE (or small handful) = CAP119?
- 2013 Target = Structured Content, Single Container
- Status: Uncertain with conclusion of ONC Contract
- HITSP Leads: John Halamka, MD, Ed Larsen, Jack Corley, Bob Dolin, MD, Michael Glickman, Steve Hufnagel, PhD, et al

2A – EHR Interop Projects

HL7 EHRS Functional Model R2

- In Kyoto (May 2009) EHR WG agreed to incorporate EHR Interoperability and EHR Lifecycle Models into EHR System Functional Model Release 2
- Status:
 - EHRS/FM Release 2 Draft Revisions Underway
 - Proposal for EHR IM and LM Model incorporation Complete
- EHRS/FM R2 Leads: Don Mon, John Ritter, Pat Van Dyke, Lenel James
- EHR Interop Leads: Gary Dickinson, Gora Datta

2B – EHR Interop Projects

HL7 EHRS FM R2 Record Sync

- Cross EHRS Record Synchrony
- OLTP-type Functionality: Bid, Lock, Commit, Unlock
- Status: Draft Prepared/Posted for WG Consideration
- Next: Update EHRS/FM R2, Information Infrastructure
- Leads: Wes Knox, Pat Van Dyke

2C – EHR Interop Projects (Tracking)

RM-ES Profile to EHRS FM R2

- Incorporate Records Management – Evidentiary Support Functional Profile into EHRS Functional Model Release 2
- Explicitly to include Action, Action Record paradigm as per EHR Interoperability and Lifecycle Models
- Status: Underway
- RM-ES Leads: Michelle Dougherty, Harry Rhodes
- EHR Interop: Tracking Only

2D – EHR Interop Projects

EHR Record Meta-Data

- Discussions underway between EHR RM-ES WG, EHR Interop WG and Structured Documents WG
 - Align EHR Record meta-data between EHR Interop and Lifecycle Models, RM-ES Profile and CDA R2/3
 - Apply RM-ES Use Cases
 - Ensure EHRS Functional Model R2 = CDA R3 Meta Data
- Structured Docs WG Lead: Calvin Beebe
- RM-ES Leads: Michelle Dougherty, Harry Rhodes
- EHR Interop Lead: Gary Dickinson

2E – EHR Interop Projects

Clinical Doc Architecture Release 3

- Proposal to resolve five (5) remaining EHR/IM requirements to CDA R3
 - Result of mapping EHR Interoperability Model requirements to CDA R2 Attributes
 - For details, see Implementation Guide for CDA R2, Reference Profile for EHR Interoperability DSTU, published Feb 2008
- Status: Preliminary Proposals Posted to SDWG Wiki
- Next: Review Formal Proposals
- SDWG Lead: Bob Dolin, MD, Calvin Beebe, et al
- EHR Interop Lead: Gary Dickinson

3A – EHR Interop Projects

HL7 SAEAF

- To tighten relationship between
 - SAEAF (Services-Aware Enterprise Architecture Framework)
 - EHR and PHR System Functional Models
 - EHR Interoperability and Lifecycle Models
- Collaboration between Technical Steering Committee, Architectural Review Board, EHR and EHR Interoperability WGs
- Status: In Progress
- Next: Develop integration plan as appropriate
- TSC/ARB Leads: Charlie Mead, Paul Boyes
- EHR Interop Leads: Gora Datta, Wes Knox, Gary Dickinson

3B – EHR Interop Projects – 2011 “Meaningful Use”

Quality Reporting

- Based on US EHR Incentive Program requirements for quality and performance measurement and reporting
- As per Alignment Analysis, show coverage & gaps WRT
 - Functions of EHR and PHR System Functional Models
 - Relevant requirements of EHR Interop and Lifecycle Models
 - EHR Record content requirements
- Status: Planning Underway
- Next
 - Review collection, capture, filtering, analysis and reporting requirements for each proposed measure
 - Identify gaps in process and information
- Leads: Kim Salamone, Gora Datta

3C – EHR Interop Projects

HL7 Diabetes Use Case

- Collaboration between HL7 EHR and Patient Care WGs, Clinical Interoperability Council and others
- Agreed Project Scope specifies EHR Interoperability Use Case Templates (as employed in ONC/AHIC Use Case analysis) in parallel with HL7's DAM, DIM approach
- Status: Use Case Templates and examples offered to Diabetes Team and discussed on several Team calls
- Next: Build Out Use Case Scenarios, Events and Actions in Template, associating Data (elements, templates) with each (Action)
- Leads: Don Mon, PhD (EHR WG), William Goosen, MD (Patient Care WG), Crystal Kallem (Clinical Interoperability Council)
- EHR Interop Lead: Gary Dickinson

Global Interoperability Standards Projects

- 1A Joint Interoperability Council
- 1B ISO TC215 – “Standards Convergence” Work Item
- 1C ANSI HITSP – Simplification, Convergence of Capabilities

EHR/PHR Record & System Level Interoperability

- 2A EHRS Functional Model Release 2 – Incorporate Interoperability and Lifecycle Models
- 2B Record Synchrony
- 2C Records Management/Evidentiary Support
- 2D Record Meta-Data
- 2E HL7 Clinical Document Architecture Release 3

Implementation Projects

- 3A HL7 Services-Aware Enterprise Architectural Framework (SAEAF)
- 3B Quality Reporting – 2011 Meaningful Use Criteria
- 3C HL7 Diabetes Use Case

EHR Interoperability WG

Reference Point

[http://wiki.hl7.org/index.php?title=EHR Interoperability WG](http://wiki.hl7.org/index.php?title=EHR_Interoperability_WG)