HL7 Electronic Health Record Work Group (EHR WG)

New Orleans WGM

29 January 2018

Work Group Purpose

- Support of Functional and Information Requirements for Electronic Health Records (EHRs) and Systems (EHR-Ss)
- Support of Functional and Information Requirements for Personal Health Records (PHRs) and Systems (PHR-Ss)
- Evolving a framework for the development of Functional Models and Profiles
  - National domains and languages, care settings, medical services/specialties
  - Including development and use of tooling
- Defining a high-level framework to support the interoperability requirements and health record life cycle
  - With a focus on trustworthiness, reliability and records authenticity of EHR systems
  - In coordination with other Work Groups

Completed Projects

- ISO/HL7 10781 Electronic Health Record System Functional Model (EHR-S FM), Release 2
  - Errata Version: Release 2.0.1 (now published)
- ISO/HL7 16527 Personal Health Record System Functional Model (PHR-S FM), Release 1
- Meaningful Use Functional Profile (MU FP), 2011/2014 Edition
- Public Health FP R1 (nine separate FPs)
- “EHR Record Lifecycle Events” on FHIR

Current Projects

- PHR-S FM, Release 2
  - Preparing Full FM Ballot
- EHR System Usability Guidelines
  - Focus on User Centered Design
  - Now: Ballot Reconciliation
  - Preparing Full FP Ballot
- Many Functional Profiles
  - Some New, Some Transitioning from R1 to R2

Current Projects (EHR-S FM Based)

- Records Management/Evidentiary Support FP, Record Quality FP
- Immunization FP
- “Work and Health” FP
- Podiatry FP
- Nutrition FP
- Dental FP

New Projects

- EHR-S FM Release 2.1
- EHR-S FM Data Requirements
  - Mapped to CIMI, FHIM/CLIM
- EHR Functional Model Designer Tool, Phase 3
- School Health Information System (targeting School Nurses) FP

HL7 EHR Work Group – Functional Profiles of ISO/HL7 10781 EHR System Functional Model (Limited to HL7 Projects)
Revised: 29 January 2018

Functional Profile Subject	SDO(s)	Prior Profile Based on	R2 Lead(s)	HL7 WGs	Contributing Organization(s)	R2 Status
Ambulatory Care	HL7	DSTU	TBD	EHR		TBD
Behavioral Health	HL7	R1	Jim Kretz	CBHS	APA, SAMHSA	Preliminary
Child Health	HL7	R1	Pele Yu MD	Child Health	AHRQ?	Preliminary
Child Health – Developmental Screening	HL7	R2	Pele Yu MD Michael Padula MD	Child Health		Published
Clinical Research	HL7, ISO, CEN, CDISC	R1	Mitra Rocca	RCRIM	FDA, CDISC, eClinical Forum	Preliminary
Dental	ADA, HL7	-----	Patrick Cannady	EHR	American Dental Association	In Progress
EHR System Usability	HL7	-----	John Ritter, Mitra Rocca	CIC, CQI, EHR	FDA, HIMSS, VA	Reconciliation
Emergency Care	HL7	R1	Laura Heerman RN James McClay MD	Emergency Care	DOD	Preliminary
Lab Interactions (S&I LOI/LRI)	HL7	-----	Riki Merrick, Bob Dieterle, Bob Yencha	EHR, Orders/ Observations	NIST, ONC S&I (LRI/LOI)	In Progress FP to Come
Long Term/Post-Acute Care	HL7	R1 (LTC)	TBD	EHR	LTPAC HIT Collaborative	Preliminary
Meaningful Use (2011/14 Edition)	HL7	-----	Gary Dickinson, Diana Warner	EHR	CMS	Published
Meaningful Use (2015 Edition)	HL7	R2	Gary Dickinson, Anneke Goossen			Ready to Publish
Mobile Health Consumer Application Framework	HL7	-----	David Tao	Mobile Health		In Parallel
Neonatal	HL7	-----	TBD	Child Health		On hold
Nutrition	HL7	R1.1	Lindsay Hoggle	EHR	Academy of Nutrition & Dietetics	In Progress
Pharmacy/Pharmacist	NCPDP, HL7	R1.1	Sue Thompson	Pharmacy	NCPDP	On hold
Podiatry	HL7	-----	Michael Brody DPM	EHR		In Progress
Public Health - Vital Records	HL7	R1.1	Hetty Khan John Ritter Michelle Williamson	EHR, PHER	CDC/NCHS, PHDSC, PHII	Published
Public Health - Early Hearing Detection & Intervention		-----				
Public Health - Chronic Diseases Cancer Surveillance		-----				
Public Health - Lab Interactions (Orders and Results)		-----				
Public Health - Occupational Disease, Injury, and Fatality		-----				
Public Health - Health Statistics		-----				
Public Health - Deep Vein Thrombosis / Pulmonary Embolism		-----				
Public Health - Birth Defects		-----				
Public Health - Adverse Events		-----				
Public Health – Immunization	HL7	-----	Gary Dickinson Mark Janczewski MD	EHR	ONC, CDC, NIST, AEGIS, ICSA, Results4Care, Sparx	In Progress
Work and Health	HL7	-----	Christina Socias-Morales DrPH, Genny Luensman PhD	EHR	CDC, NIOSH	In Progress
Quality Indicators	HL7	-----	Floyd Eisenberg MD	CQI		Preliminary
Records Management/Evidentiary Support (RM-ES), Record Quality	HL7	R1	Reed Gelzer MD	EHR	AHIMA, ONC	In Progress
Unique Device ID (UDI)	HL7	-----	TBD	OO	FDA? ONC?	Preliminary

R2 Status
TBD – to be determined – assessing need, lead(s), resources
Preliminary – need identified, lead(s) to be identified, gathering resources
In Progress – project underway, regular meetings scheduled
In Parallel – project underway, using alternate specification format
Ballot/Cycle – Anticipated ballot cycle
Published

HL7 EHR Work Group – Known National Initiatives using ISO/HL7 10781 EHR System Functional Model
Revised – 29 January 2018

Nation	Language	Contact Point(s)	Contact eMail	Status/Use
Australia	English	Queensland Health Peter MacIsaac	macisaac.peter@gmail.com	Complete Queensland Ambulatory EHR Adoption Program
Brazil	Portuguese	Beatriz Leao	beatriz.leao@zilics.com.br	R1.1 Translation: Complete R2 Translation: Partial (in progress) EHR Developers Reference
Canada	English	Canada Health Infoway Grant Gillis	ggillis@coachorg.com	Partial/On Hold Provincial EHR Adoption Programs
Chile	Spanish	Alejandra Lozano Schälchli	alejandra.lozano@minsal.cl	In Progress National EHR Adoption Program
Columbia	Spanish	Bernd Blobel MD	bernd.blobel@klinik.uni-regensburg.de	On Hold due to Political Transition National EHR Adoption Program
Denmark	Danish	TBD		Preliminary
Finland	Finnish	Juha Mykkanen	juha.mykkanen@uef.fi	In Progress National EHR Adoption Program
France	French	Francois Macary	francois.macary@sante.gouv.fr	R2 Translation: Partial (awaiting resources) National EHR Adoption Program
Italy	Italian	Stephano Lotti Giorgio Cangioli	slotti@invitalia.it giorgio.cangioli@gmail.com	R2 Translation: Complete Regional EHR Adoption Program Underway
India	English	Mayank Agarwal Gora Datta	mayankagra@hotmail.com gora@cal2cal.com	Preliminary National EHR Adoption Program
Ireland	English	General Practice Information Technology (GPIT) Group Brian O'Mahony	bom@iol.ie	Complete GP EHR System Certification Program
Japan	Japanese	Noriko Inaoka, PhD Hideshige Hasegawa	inaoka@jp.ibm.com hide.hasegawa@mx8.ttcn.ne.jp	R1.1 Translation: Complete R2 Translation: Partial (in progress) EHR System Developers Reference
Korea	Korean	Center for Interoperable EHR (CiEHR) Il Kon Kim	ikkimgg@gmail.com	R1 Translation: Complete Public and National University Hospital EHR Framework
Mexico	Spanish	José Manuel Castañeda Casas Marco Pardavé	castaneda.jmanuel@gmail.com mapardave@gsprogress.us	R1.1 Translation: Complete R2 Translation: Preliminary National EHR Adoption Program
Netherlands	Dutch	William & Anneke Goosen Robert Stegwee	annekegoossen@results4care.nl robert.stegwee@capgemini.com	R2 Translation: Partial (in progress) Behavioral Health FP and Others
New Zealand	English	Peter Jordan	peter.jordan@patientsfirst.org.nz	Preliminary National EHR Adoption Program
Norway	Norwegian/ English	Line Saele Andraessen	line.sele@nasjonalikt.no	R2 Translation: Partial (using English version) National EHR Adoption Program
Peru	Spanish	Bernd Blobel MD	bernd.blobel@klinik.uni-regensburg.de	In Progress National EHR Adoption Program
Sweden	Swedish	Helen Broberg	Helen.Broberg@skane.se	R2 Translation: Partial (in progress) Regional EHR Adoption Program
United States	English	Various		Original EHR-S Certification Program Basis for CCHIT Certification Criteria