

HL7 Electronic Health Record Work Group (EHR WG)

Baltimore WGM

14 January 2019

Work Group Purpose

- Formed in 2000
- Support of Functional and Information Requirements for:
 - Electronic Health Records (EHRs) and Systems (EHR-Ss)
 - 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 FM/FP Tooling
- Defining a high-level framework to support the interoperability requirements and health record life cycle
 - With a focus on EHR trustworthiness, reliability and authenticity
 - In coordination with other Work Groups

EHR WG Co-Chairs

- Michael Brody DPM
- Gary Dickinson FHL7
- Steve Hufnagel PhD
- Mark Janczewski MD
- John Ritter
- Pele Yu MD

Completed Projects Include...

- ISO/HL7 10781 Electronic Health Record System Functional Model (EHR-S FM), Release 2.0.1
- ISO/HL7 16527 Personal Health Record System Functional Model (PHR-S FM), Release 1
- Meaningful Use Functional Profile (MU FP)
 - 2011/2014 Editions
 - 2015 Edition
- Public Health FP R1 (nine separate FPs)

Current Projects Include...

- EHR-S FM, Release 2.1
 - Updates to: Record Infrastructure, Conformance Clause, Detailed Clinical Models (DCMs), Glossary
 - Now: Passed Ballot – Jan 2019, in Reconciliation
- PHR-S FM, Release 2
 - Now: Passed Ballot – Jan 2019, in Reconciliation
- EHR System Usability Guidelines
 - Focus on User Centered Design and Usability Infrastructure
 - Now: Ready for Publication

Current Projects Include...

- Many EHR-S FM Functional Profiles
 - Some New, Some Transitioning from R1 to R2
- “EHR Record Lifecycle Events” on FHIR
 - RLE Implementation Guide
 - Part of FHIR Core R4, Published Jan 2019
- Functional Model/Profile Designer Tool
 - Support for PHR-S FM

Current Projects (EHR-S FM R2 Based)

- Dental FP (in progress)
- Immunization FP (ready to publish)
- Nutrition FP (ready to publish)
- Podiatry FP (in progress)
- Records Management/Evidentiary Support FP (update from R1.1)
- Work and Health FP (ready to publish)

New Areas of Focus

- Reducing Clinician Burden
 - Preparation for EHR-S FM R3
- EHR-S FM R3 – Data Requirements
 - Mapped to FHIM/CLIM, CIMI?
- Data Reliability, Trustworthiness
 - EHR as Legal Record
- School Health

EHR WG Schedule This Week

Mon Q3	Hosting – Mega Report Out – Child Health, CIMI, Clinical Genomics, CIC, CQI, Emergency Care, Patient Care, Public Health
Mon Q4	Tooling Support – EHR/PHR System Functional Models & Profiles
Tues Q1	Hosting – Mobile Health – Consumer Application Framework
Tues Q2	EHR System Usability – User-Centered Design + Usability Infrastructure EHR System Safety
Tues Q3	EHR System Functional Model Release 2.1
Tues Q4	Podiatry Functional Profile

EHR WG Schedule This Week

Wed Q1	<p>Hosting – CBCP, FHIR Infrastructure, Security, SOA</p> <ul style="list-style-type: none"> • General Data Protection Regulation (GDPR) – Europe • Trusted Exchange Framework Common Agreement (TEFCA) – US • FHIRcast • FHIR Security and Privacy Considerations • FHIR R4 – Record Lifecycle Event Implementation Guide
Wed Q2	Hosting – International Patient Summary (IPS)
Wed Q4	Functional Model/Profile Reports
Thu Q1/Q2	HOT TOPIC – Reducing Clinician Burden
Thu Q3	HOT TOPIC – School Health

HL7 EHR Work Group – Functional Profiles of ISO/HL7 10781 EHR System Functional Model (Limited to HL7 Projects)

Revised: 14 January 2019

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, GEN, CDISC	R1	Mitra Rocca	RCRIM	FDA, CDISC, eClinical Forum	Preliminary
Dental	ADA, HL7	-----	Paul Bralower, Andrew Casertano	EHR	American Dental Association	In Progress
EHR System Usability	HL7	-----	John Ritter	CIC, CQI, EHR		Ready to Publish
Emergency Care	HL7	R1	Laura Heerman RN James McClay MD	Emergency Care		Preliminary
Lab Interactions (S&I LOI/LRI)	HL7	-----	Riki Merrick, Bob Dieterle, Bob Yencha	EHR, Orders/Observations	NIST, ONC S&I (LRI/LOI)	Published
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, Mark Janczewski MD			Published
Mobile Health Consumer Application Framework (CMHAFF)	HL7	-----	Gora Datta	Mobile Health		CMHAFF Published
Nutrition	HL7	R1.1	Tina Papoutsakis	EHR	Academy of Nutrition & Dietetics	Ready to Publish
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	CDC	Ready to Publish
Work and Health	HL7	-----	Christina Socias-Morales DrPH, Genny Luensman PhD	EHR	CDC, NIOSH	Ready to Publish
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 Reconciliation - ballot complete, reconciliation in progress

Ready to Ballot – first or second ballot cycle (reconciliation complete)

Ready to Publish - final ballot and reconciliation complete

HL7 EHR Work Group – Known National Initiatives using ISO/HL7 10781 EHR System Functional Model

Revised – 16 May 2018

Nation	Language	Contact Point(s)	Contact eMail	Status/Use
Argentina	Spanish	Diego Kaminker	kaminker.diego@gmail.com	Complete Epilepsy EHR Project
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 Marco Antonio Cántaro Hernández	bernd.blobel@klinik.uni-regensburg.de mcantaro@inacal.gob.pe	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