EHR WG Minutes 2022-03-29

HL7 Electronic Health Record Work Group Weekly Conference Call

Every Tuesday 1900 UTC; 1500 ET US; for 60 minutes

To join the HL7 EHR WG Meeting:

Zoom Conference Call Information https://zoom.us/j/5860741097?pwd=K014Yzk5Yy9BcF5SlZoOTlzb0dmdz09

Meeting ID: 586 074 1097

Phone Number: +1 (646) 558-8656 US (New York) Find your local number: https://zoom.us/u/adRxukaOZl

Presiding Co-chair: John Ritter, FHL7
Scribe: Mark Janczewski, MD, MPH

Attendance

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<tr>
<th>Attended</th>
<th>HL7 Members</th>
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**Materials:**

1. Minutes from EHR WG Weekly Teleconferences, located at:  [https://confluence.hl7.org/display/EHR/EHR+Weekly+Teleconference+Minutes](https://confluence.hl7.org/display/EHR/EHR+Weekly+Teleconference+Minutes)

**Agenda:**

1. **VOTING ITEMS**

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<td>Approve Minutes from 2021-03-22</td>
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2. **Report Out from HIMSS Meeting last week in Orlando 13-18 Mar 2022** - John Ritter. No real major theme this year; more socialization as this was the first F2F meeting in three years. John weighed in on School Health/SHIFT topics in relevant sessions (e.g. school nurse rand bus driver resignations due to COVID, vaccination status). NY, NJ and PA HIMSS Chapters sponsored a session with the Brian Cutler (PA House of Representatives and Speaker of the PA House). John had a separate conversation with him.

3. **Tooling Update** (Michael van der Zel and FP leads)
   a. EHR-S Usability FP – The tool does not have the ability to consume a new Usability ("U.x") section; John to discuss with MvdZ. See Project update below (3.b.). Team has not met in the past month.
   b. Pediatric HIT FP – Function List complete, ready for Publication. Waiting on MvdZ to compile.
   c. Podiatry FP - Function List complete, ready for Publication. See Project Updates below.
   d. Problem-Oriented Health Record (POHR) FP - Ballot reconciliation in progress. Tooling won’t start until team starts mapping the functions and CCs with FHIR Resources. See Project Updates below.
   e. FHIR Record Lifecycle Event Implementation Guide (RLE IG) - Will be converted to independent FHIR IG, separate from FHIR Core
   f. EHR-S FM Release 3 – Will continue review and planning for R3

4. **Project Updates**
   a. #1502 - ISO 13606-3/FHIR Implementation Guide (PSS in Confluence) - This is an item that we have had a PSS for over a year, but for an unknown reason the TSC has not approved it. The actual project is underway, with regular meetings being conducted, now concerning a cross-mapping project ISO 24305 ([https://www.iso.org/standard/78390.html](https://www.iso.org/standard/78390.html)) dealing with FHIR IG and EHR communication ISO 13606 ([https://www.iso.org/standard/67868.html](https://www.iso.org/standard/67868.html)) and CONTSYS ISO 13490 ([https://www.iso.org/standard/26789.html](https://www.iso.org/standard/26789.html)). This is a bidirectional mapping. Questions being asked by Anne Wizauer at HL7 HQ include the first 4 items below.
      i. Target dates in PSS section 3.e. will need to be updated
     ii. HL7-managed project document repository location in PSS Section 3.i. will need to be updated with a location other than the Wiki, as it’s been retired
     iii. Joint copyright isn’t noted, but the scope looks like it mentions joint products. Is that correct, and will joint copyright be required?
     iv. There was a comment that MnM thought that this should be STU rather than Informative – was that ever resolved?
     v. Most of the work is being done on mapping 13606 to FHIR via biweekly meetings.
     vi. Due to new requirement to map to a particular release of FHIR, team is working on using R.4.0.1
Questions remain about adopting R.5. Lloyd Makenzie has announced that FHIR R.5 is to go through two ballot cycles after this May cycle; with a STU Publication of R.5 in early 2023. R.6 would be the next Normative Release.

PS5 for this project needs to be reformatted and put in JIRA per the TSC.

b. **EHR System Usability Functional Profile (John Ritter)**
   i. Gary had a conversation with Dave Schlossman last week, who indicated that about 200 or the approximately 600 CCs have been properly formatted and could be passed on to MvdZ. John confirmed that.
   ii. John working with David Schlossman to harmonize "breadcrumb trails" to tie back to CCs. Gary suggested developing a T1.11 section. John had developed U.1, U.2, ... for Usability. The alternative would be to make these all into a T.11. See above Tooling remarks.
   iii. Balloted 2x, reconciled 2x. UFP spreadsheet being finalized. John has discovered the linkages to the CCs in EHR-S FM R.2, PHR-FM R.2 and to other FPs. John is working with David Schlossman MD to finalize input spreadsheet. Met last on 25 Feb 22. Then will be ready for tooling to create Function List for Publication. (Demerit on Work Group Health due to delay to publish.)

c. **EHR-S FM R2.1 and PHR-S FM R.2 (Gary Dickinson)**
   i. Both EHR-S FM R.2.1 and PHR-S FM R.2 have been approved and published by HL7. Currently ISO versions are the previous versions: EHR-S FM R2, PHR-S FM R1.
   ii. ISO TC 215 Formal vote on Fast Track resolution is forthcoming (ISO National Member Bodies are voting to affirm Fast Track for both FMs). Formal Fast Track approval will then commence. Still awaiting full TC215 approval; being conducted via e-mail. Fast-track ballot should be closing 3 March 2022.
   iii. ISO designation for EHR-S FM R.2.1 is ISO 10781 designation; PHR-S FM R.2 is ISO 16527. Ballot packages for their Fast-Track approval process are being prepared.
   iv. Ballot on the ISO side should take place in 2-3 weeks.
   v. Outside groups are interested in the PHR-S FM R.2 (e.g., Health Record Banking Alliance [HRBA]).
   vi. Should invite Drs. Daniel Freeman (CSDO for HL7) and Viet Nguyen (CSIO for HL7) to one of our next WGM Quarters - perhaps Thursday, Q3 or Q4.

d. **Podiatry FP (Michael Brody DPM, Reed Gelzer MD PhD)** - Deferred
   i. Reconciliation of the 2021SEP Ballot is complete.
   ii. Updated Podiatry Function List has been generated from the Tool. Thanks to Michael Van Der Zel!
   iii. Dr. Brody will post the reconciliation results, negative in the process of being officially withdrawn, and then submit the Publication package.
   iv. Dr. Brody looking to resume the Friday calls - to be announced.
   v. Podiatry will not meet next May 2022 WGM

e. **Dental FP (Greg Zeller, DDS)** - No changes since last meeting
   ii. Plenary on 23 February - plan was to review/approve NWI ADA 1108.

e. **Reducing Clinician Burden Project (Gary Dickinson)**
   i. On Monday 28 Feb 2022 there was a presentation about the MedKnowts ([https://uist.acm.org/uist2021](https://uist.acm.org/uist2021)) EHR effort at MIT (David Sonntag) and Beth Israel Deaconess (Dr. Stephen Horng) Boston on EHR enhanced with AI. One notable outcome was the reduction in keystrokes for clinicians. EHR RCB will continue to collaborate with these individuals, as well as Pat Baird (Philips) and Dr. John Gachago (NIH), who briefed the team on 17 Jan 2022.
   ii. Medication List Management and Reconciliation Focus Team continues its work. Lead: Reed Gelzer MD. Meets most Thursdays at 1700 ET US. Next meeting is 31 Mar 2022. It is not yet an official HL7 project as list of deliverables has not yet been defined. Members of the HL7 Pharmacy WG have now joined this Focus Team.
   iii. Work continues to develop a white paper in collaboration with ISO TC215 WG1, focused on burden reduction. Outline is in place. The work item and corresponding resolution has been approved by ISO TC215 WG1. Will solicit input from ISO National Member Bodies (35 member bodies participating plus over 30 more observing nations) and build on RCB’s current draft white paper. Approved at ISO TC215 Plenary Session and published as ISO 4419. Dave Schlossman is leading RCB for TC215 WG1 this effort. Artifacts include a 2-page Outline and 2-page overview. This is an Informative document.
   iv. Last meeting was yesterday 28 March 2022 with a presentation by Dr. Lindsey Stevens (Pediatrician at Stanford).
   v. Next meeting on 11 Apr 2022 with presentation with Dr. Barry Newman on legal aspects on RCB. The 25 Apr 2022 meeting to focus on “SAFER” (patient Safety,etc.) guidelines.
5. EHR-S FM R3 - Deferred

a. The EHR WG intends to invest time brainstorming structure and content of the next release of the EHR-S FM (i.e., Release 3) during its weekly conference calls.
b. During last HL7 WGM the EHR WG had a session devoted entirely to EHR-S FM R3. Approximately 8 people attended and Gary provided a history of the FM as well as noting development of FPs and nations versions.
c. Need to examine interchange with other HL7 standards. We need to ensure that the EHR-S FM continues to be relevant!
   i. Data requirements. May need map to FHIR Resources? Terminologies? One concern is in mapping FHIR resources, should it be done at the Function or CC level?
   ii. May want to map to some workflows (if there are some standards)
   iii. Consider discrepancies between USCDI and other standards.
   iv. Could EHR-S FM R.3 be an "integration" standard?
d. At this point we need to develop a plan for going forward:
   i. Goal - What final product do we want to have?
   ii. Mission - Evolve current EHR-S FM R2 to be integrated with other published HL7 standards (e.g. FHIR)
   iii. Scope
   iv. Major tasks
   v. Timeline

e. Michael VdZ would prefer to continue mapping to FHIR. The list management section mapping is underway. Try to expand CP1.4 to get a more complete mapping.

6. Upcoming sessions on INTERPAS, coordination at ONC Office of Burden Reduction, CMS, and Office of the US Surgeon General

7. On 9 May 2022 during the HL7 WGM we will devote the 2nd half of the RCB sessions with a talk by Dr. John Halamka (now at Mayo Clinic)

8. Problem-Oriented Health Record (POHR) Project (#1831) (Lincoln Weed)
   i. Joel Buchanan reviewed the final dispositions and responses for Ballot Reconciliation. Ryan Mullin will be replacing (Cerner) will be taking over Joel’s duties.
   ii. Lincoln leading the effort with Mark assisting to use the HL7 JIRA Process to provide reconciliation feedback to ballot voters. Lincoln and Mark have had ongoing communication with Melva Peters at HL7 HQ on the process for providing dispositions to ballot vote “issues” in JIRA, and then how to forward these on to the original commenters and then to the EHR WG for final approval vote. Likely the team will send groups of comments to the EHR WG for approval.
   iii. POHR alternates with RCB in the Monday 3PM ET time slot. Next meeting 5 April 2022.
   iv. Next step is mapping to FHIR resources starting after end of March 2022. One of the items is to take the existing FHIR “Condition” resource and show how that maps to the POHR CCs. See examples provided by MvdZ https://vdzel.home.xs4all.nl/pofp/  Was discussed with project leads on Tuesday 1 Mar 2022.


h. Pediatric Care Health IT Functional Profile (PCHITFP) (Dr. Pele Yu) - Deferred
   i. Request for Publication is forthcoming. Michael van der Zel working on compiling the FP into the EA tool.
   ii. FHIR Record Lifecycle Event Implementation Guide (RLE IG) (Gary Dickinson) - Will be converted to independent FHIR IG, separate from FHIR Core, as requested by FHIR Infrastructure Group. There is now a tool to allow developing a new independent IG. There are 27 Record Life-Cycle Events. Provenance and Auditing are the two major RLE events that make up the bulk of this content. PSS has been developed and approved by vote on 1 March 2022. Looking to update and publish a RLE FHIR IG mapped to FHIR R.4 (and eventually R.5)
   iii. Mobile Health Work Group’s SHIFT (School Health Innovation Framework leveraging Technology) Project (John Ritter) SHIFT Project will continue after the EHR-S Usability FP is finished.
      i. SHIFT: Gora and John met last night and developed a one page "flyer"; upcoming Executive Summary to be about 5 pages long. The SHIFT White Paper will be about 80 pages.
      ii. SHIFT Project: Gora Datta and Matt Graham (from the Mobile Health Work Group) continue to meet from 11 pm to 12 midnight ET most Mondays to flesh out more of the Executive Summary and other document updates
      iv. John met with Scott Robertson and Matt Graham from 11:00 pm to midnight on 2022-03-21 and polished more of the Executive Summary document’s text. During our analysis of the list of Objectives and Goals we discovered that we had not yet (specifically) named Administration of Communications and Administration of Workflow (or Calendar/Scheduling) as key ingredients of a fully functional school health information system (that fully supports school health services). So we added them to the Executive Summary.
      v. John asked the WG today to think about the creation of a "School Functional Profile" or profiles that could include SDOH or other areas.
b. **EHR WG PBS (Project / Ballot Status) metrics**
   i. EHR WG is in “Yellow” status, but it is not clear why based on the spreadsheet from HL7 HQ. Awaiting update before WGM.
   ii. As noted previously, PHR-S FM R2 is awaiting ANSI approval for final publication. The EHR-S Usability FP should be ready soon for publication. Finalizing these two items will satisfy a long-standing deficit in EHR WG PBS metrics.
   iii. All other required items are “green” (up to date), noting that we do have some updates (specifically our governing documents) needed in 2022.

c. **Inactive Projects**
   i. All inactive and complete projects where we are primary sponsor have been addressed. However there remain a number of projects that appear to be inactive and where EHR WG is a co-sponsor. We are working with designated project leads and/or the sponsoring WG to get these items properly status(ed).

d. **Collaboration with Human and Social Services WG (John Ritter):**
   i. **Tentative Incremental Activities**
      1. Referrals - Need to get a Referrals expert
      2. Case Management - Mark J. can talk a bit about this
      3. Child Health Information concurrent with Social Information - Pele
      4. Child Health and Welfare
      5. Connecting ERs with Child Protective Services
      6. Lack of Universal CDS
      7. Challenges of Handoff from one Provider to Another
      8. Double entry/double duty challenges
      9. Working with EMI and Gravity Project
      10. Capture and project SDOH content into the Health Record

   ii. **List of EHR WG artifacts, projects, and plans that may be of particular interest to the HSS WG**
      1. Functional Models
         a. EHR System Functional Model R2.1
         b. PHR System Functional Model R2
      2. Functional Profiles
         a. Pediatric HIT Functional Profile - Pele
         b. Problem Oriented Health Record Functional Profile
         c. Immunization Functional Profile
      3. Special projects
         a. SHIFT - School Health Innovation Framework leveraging Technology
      4. National and International stuff
      5. MAY2022 HL7 WGM EHR-HSS WG Joint Meeting
         a. List of proposed HSS WG activities that may be of particular interest to the EHR WG

e. **Meetings** – Unless otherwise specified these all use the GoToMeeting platform
   i. Podiatry FP meets most Fridays at 1200 ET US - will restart after Publication is finalized.
   ii. Reducing Clinician Burden: Every other Monday (1st and 3rd) at 1500 ET US (alternating with the POHR meetings). Next meeting is 28 Feb 2022.
   iii. Reducing Clinician Burden/Medication List Management and Reconciliation team meets most Thursdays at 1700 ET US (uses GoTo Meeting). Next meeting is 17 Feb 2022.
   iv. Problem-Oriented Health Record Focus Team meets every other Monday at 1500 ET US (alternating with the RCB meetings) (uses GTM)
   v. Dental Functional Profile; currently on HOLD until after Feb 2022 virtual Chicago meeting. Uses Zoom.

f. **Re-envisioning HL7 WGM EHR Mega Report-Out**
   i. Discuss whether/how to conduct future EHR WG Mega Report-Out sessions at upcoming HL7 WGMs. We will defer Mega report out to next F2F - Baltimore, Sep 2022.