EHR WG Agenda/Minutes 2022-07-19

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=K0l4Yzk5Yy9BcFc5SiZoOTIz0b0dmdz09

Meeting ID: 586 074 1097
Passcode or Password: 057087
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:  Pele Yu

Attendance

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Materials:

Minutes from EHR WG Weekly Teleconferences, located at:  EHR Weekly Teleconference Minutes

Agenda:

VOTING ITEMS
EHR WG Meeting Schedule during Summer

1. Co-Chairs decided last week to keep this a weekly meeting. Some sessions could be cancelled on an ad-hoc basis.

Tooling Update (EHR WG Co-Chairs)

1. EHR-S Usability FP
   a. The spreadsheet should now be ready to go with updated Functions name and Statements. Dave Schlossman passed this on to Michael van der Zel. Michael has been working on this to generate the publication (unless there are any exceptions that arise from Tooling). It is on MvdZ’s Agenda to accomplish this week. See EHR-S Usability FP in Project Updates, below.
   b. John working on the typos of the FP, showcasing list of easy typo errors in the FP. Once he fixes the typos then its good to go to move forward. Also needs an updated cover page for the FP.

2. Base EHR-S FM Model R2.1
   a. Missing OV Chapter CC#5 and the order of AS and POP functions have been fixed. Michael vdZ has produced the new publication files and has place in BitBucket. See: [https://bitbucket.hl7.org/projects/FM/repos/ehrsfm21fix/](https://bitbucket.hl7.org/projects/FM/repos/ehrsfm21fix/) - Waiting determination of next steps - produce errata version? Will need to consult with HL7 HQ regarding the one correction to the Function list.
   b. MvdZ has produced current version, with completed corrections, graphics update, and update the Overview document.

3. FHIR Record Lifecycle Event Implementation Guide (RLE IG)
   a. Michael vdZ has created the initial draft using the FHIR IG Tool; additional updates need to be applied. Michael setting up meeting with Gary - narrow two profiles and update the profiles before moving to ballot.

4. Podiatry FP
   a. Michael vdZ has produced a new, replacement set of publication files as part of the Publication Package. This task is now complete; awaiting F/U with Dr. Brody. See Podiatry FP in Project Updates, below.
   b. No further tooling constraint.

5. Problem-Oriented Health Record (POHR) FP
   a. Will be ready for tooling once ballot comment reconciliation updates to the input spreadsheet are complete. Awaiting Lincoln Weed and feedback from 3 negative votes received. Two of the respondents (AMA, Epic) have withdrawn their negative votes; the other (CDC/NIOSH) should be looking at our response soon. See POHR FP in Project Updates, below.
   b. No further tooling constraint.

6. EHR-S FM Release 3
   a. No current tooling requirement. Michael VDZ has evaluated using FHIR IG Tool for publication. May require some additional Tool capabilities.
   b. Plan to consult with Dan Vreeman (HL7 CSDO, which assumes part of former HL7 CTO role) to inform and request continuing tool support for EHR WG FMs and FPs. Gary has invited Dan to EHR WG calls; hope to have him on, perhaps in July. Will need to get Gary, Graham Grieve, Michael vdZ and Dan Vreemen together during the next few weeks to further advance tooling support for this. This will help us to better link functional requirements to data requirements in general (which POHR team is currently working on this, for example).
   c. Goal to align tooling with FHIR implementation guide tool/resource.

Project Updates (EHR WG Co-Chairs)

   a. ISO 13606 is a 5 Part Standard focused on “EHR Communication”. ISO 13940 (CONTSYS) specifies a "System of Concepts to Support Continuity of Care".
   b. Project is underway. Three Project Teams meet regularly to develop bidirectional crosswalk. Project Teams are mostly comprised of ISO and CEN folks - one for 13606-1 to/from FHIR, one for 13606-3 to/from FHIR, and another for 13940 to/from FHIR. Soliciting additional FHIR experts to join and review content.
   c. Crosswalk is to/from FHIR R.4.0.1 (FHIR R.5 is an Informative update) - consider crosswalk to FHIR R6
   d. TSC has reviewed and approved this Project.

2. EHR System Usability Functional Profile (UFP) (Project Leads: John Ritter, David Schlossman MD)
   a. UFP has been balloted 2x and reconciled 2x. Currently in preparation for publication.
   b. John and David have worked through remaining CCs. The spreadsheet has been completed and has been sent to MvdZ and is ready for import into the Tool.
   c. UFP Overview Chapter is ready for publication
   d. John is putting together the Publication Request for the EHR Usability FP. Awaiting David to review progress of editing document.

3. ISO Adoption of EHR-S FM R2.1 and PHR-S FM R.2 (Project Leads: Gary Dickinson and John Ritter)
   a. Both EHR-S FM R.2.1 and PHR-S FM R.2 have been approved and published by HL7. At present, ISO versions are previous releases: EHR-S FM R2 (ISO/HL7 10781) and PHR-S FM R1 (ISO/HL7 16527).
   b. Rachel Hawthorne (ISO Secretariat) is working with Gary and Lynn Laakso (HL7 HQ) to advance current Releases to ISO.
c. Once we have resolved issues of formatting and editing of Figures and Diagrams, Rachel will commence a Fast Track ballot of both FMs. ISO National Member Bodies will vote and potentially offer comments. Since this is a Fast Track ballot, comments will be considered but do not require formal reconciliation, corrections excepted.

d. In the Overview of PHR-S FM R2, John has updated the numbering of Figures 3 and 4. There are also two diagrams that John has now updated and finalized using PowerPoint SmartArt. Finishing up shortly.

e. Michael voicemails new publication files and will place in the BitBucket to include the missing OVT5. John working on graphics for both FMs. Need to also co-ordinate the publication with HL7 HQ.

f. Affirming determination of next steps with HL7 HQ - produce errata versions of both FMs?

g. TSC awaiting for the edits to be fast tracked.

4. Podiatry FP (Project Lead: Michael Brody DPM) - No update

a. FP was approved for publication by the EHR WG a couple weeks ago.

b. Dr. Brody has spoken with Lynn Laakso and Dave Hamill on next steps.

c. Michael Brody announced resumption of Podiatry calls - Friday 12 Noon ET.

d. Podiatry will meet during Sep 2022 face-to-face WGM in Baltimore

e. Dr. Brody has secured private funding to write up a new Podiatry FP to make it consistent with POHR and has invited Lincoln Weed to the F2F Tuesday Q3 Session at the HL7 WGM in September.

5. Dental Health FP (Project Lead: Greg Zeller, DDS) - No changes since previous EHR WG Meeting.

a. Artificial Intelligence (AI) Focus Team - What is the optimum role for HL7?

b. ADA Standards Committee on Dental reviewed marked-up versions of the ADA 1067 Standards, based on EHR-S FM R1.1 - and reaffirmed until 2023.


d. Greg asked about ISO TC215 WG2 developing a data exchange standard for dental research; much like the HL7 CCAIA IG for dental records in general. Greg notes the Provider Information Exchange (PIE) WG did develop CCDA and FHIR IGs (ANSI 1084) for exchange of dental record data. Greg wonders if they should develop a separate ISO standard. There is an HL7-developed Dental FHIR IG and a Dental CDA IG; then there’s a SNOMED and SNODENT lexicon from IHTSDO. Greg to further investigate and get back to the WG as this progresses.

e. Next major ADA Standards Committee meeting is F2F in October 2022 in Houston, TX.

f. Dental FP team to meet at HL7 WGM in September, Wednesday Q3.

g. As an aside, the ISO/HL7 “Cooperation Agreement” is awaiting ISO signature. This is different than “Fast Track” and would allow WGs (like TC215 and EHR WGs) to work together and share documents.

h. At the ISO TC215 WG2 work meeting in January 2023 Sapporo, looking to develop an ISO standard for exchange of Dental data internationally.

6. Reducing Clinician Burden Project (Project Co-Facilitators: Gary Dickinson, David Schlossman MD)

a. LINK: RCB Confluence Page: Reducing Clinician Burden (RCB)

b. Work continues to develop a White Paper for ISO 4419 in collaboration with ISO TC215 WG1, focused on burden reduction. This would fall under the ISO/HL7 “Collaboration Agreement” that is pending. David Schlossman MD is Project Lead. The work item and corresponding resolution has been approved by ISO TC215 WG1. Initial materials include a 2-page Outline, 2-page Overview. The project will build on an existing DRAFT RCB White Paper, hopefully in September 2022. ISO National Member Bodies (35 member bodies participating plus over 30 more observing nations) have now responded to the initial inquiry and have designated six experts to work on this project. This is target as an ISO Technical Report (informative) with a corresponding HL7 White Paper.

c. Main RCB immediate previous sessions:

i. 11 July 2022: “Safety and Legal Aspects of EHRs”- Barry Newman MD spoke for about 90 minutes and included discussion of SAFER Guidelines with Dean Sittig, Patricia Sengstack and Hardeep Singh, who will join us.

ii. Possible incorporating EHR safety in RCBP requirements

iii. Main RCB upcoming sessions:

iv. 25 July 2022: “Burden Reduction and Medical Devices”- Todd Cooper

v. 4 Aug 2022: “International Patient Summary - Now and Future”, Rob Hausam MD was postponed due to scheduling challenge.

vi. 22 Aug 2022: “Data Usability” - Didi Davis from Sequoia Project

vii. 19 Sep 2022 (Monday Q4) at HL7 WGM in Baltimore: RCP Project updates plus “Galileo Project” by Ed Hammond from Duke University.

d. Medication List Management and Reconciliation Focus Team continues its work. Lead: Reed Gelzer MD. Meets every other Thursday at 5PM ET. Last meeting was 20 May 2022. Next meeting 14 July 2022. Though meetings have not been held, there has been some substantial work being done. Will need a PSS once deliverables have been decided on. Members of the HL7 Pharmacy WG and NCPDP have joined this Focus Team.

a. Artificial Intelligence (AI) Focus Team sessions starting every other Tuesday, 1600-1700 ET US, next meeting 26 Jul 2022. Ioana Singureanu will be presenting at the upcoming meeting. Uses GoToMeeting.

b. SmartAI (AI) Confluence Page: Artificial Intelligence (AI) Focus Team - What is the optimum role for HL7?

i. 27 June 2022: Continuation of earlier meetings’ discussions on AI. Considering potential collaborative work with ISO (perhaps allow HL7 to have a “liaison A” relationship with ISO; 2nd is a Collaboration Agreement). A few action items came from this including collaboration agreements, various contexts (e.g. patient, action, problem, provenance) for Als. It was mentioned that ISO 13119 should also have some relevance regarding metadata.

ii. Seeking further feedback in specific AI use cases from stakeholders.

iii. LINK: AI Confluence Page: Artificial Intelligence (AI) Focus Team - What is the optimum role for HL7?

7. Problem-Oriented Health Record (POHR) Project (#1831) (Project Leads: Lincoln Weed, Charles Burger MD, Ryan Mullins MD)

a. Ballot reconciliation complete; updating JIRA tickets with reconciliation results. Epic and AMA negative votes have been addressed and resolved. CDC/NIOHS is pending. Lincoln working to set up call with Dr. Genny Luensman regarding resolving NIOSH vote and comments. Ms. Luensman noted in an email on 8 Jul 2022 that she “fundamentally disagrees, and the next step IMHO is to have a discussion during a group call if these tickets are going to be resolved now or in the future”. She suggested that we try for the Tuesday, 3 PM ET US EHR WG call on 26 Jul or 2 Aug (preferring 2 Aug, but will squeeze in 26 Aug if needed, though we can also wait until the SEPT2022 WGM. Note that this is an informative ballot; we do not need to reconcile all negative votes.

b. On draft issues have been fully adjudicated and put into JIRA we should be ready for EHR WG to vote. Still need to determine whether to put the entire POHR ballot dispositions to a block vote or put all of the non-negative issues into one block, and “carve” out those that are negative and vote on those in a separate block.

c. Melva Peters (HL7 HQ) recommended EHR WG have a block vote to finally approve all of the reconciliation and ballot votes.

d. POHR alternates with RCB in the Monday 1500 ET US time slot.

e. Next call is Monday, 18 July 2022. Plan to continue discussion on Care Plans, and perhaps Progress and SOAP notes.

f. Per Lincoln - Mark Janiczewski and Andrea Pitkus PhD described real world cases with complex histories to showcase EHR functionality and describe pitfalls in configuration, also discussed FHIR limitations in complex care needs. Lincoln reviews SOAP
historical context from POHR's perspective and how Larry Weed envisioned "knowledge-coupling" software and how practice of medicine and regulatory framework can benefit from his work. Hope that HL7 can help disseminate his work.

g. LINK: POHR Confluence Page: Problem Oriented Health Record (POHR)

8. Pediatric Care Health IT Functional Profile (PCHITFP) (Project Lead: Pele Yu MD)
   a. has now been published!
   b. Need to verify whether the FP also has a pathway to an ANSI Standard.
   c. Drummond Group has engaged three different EHR vendors with Pediatric modules in doing demonstration projects with the aim toward certification.
   d. To help get this FP implemented, Dr. Yu is working with legal department at Univ. of Ark. Children's Hospital looking to get a "client validation model" as an example of implementation with one of the largest EHR vendors. This will help start to show where and how FM FP standards are being implemented on different platforms, a.k.a., a "market evaluation" and identify any gaps.

9. FHIR Record Lifecycle Event Implementation Guide (RLE IG) (Project Lead: Gary Dickinson)
   a. Current target is FHIR R4.0.1. It has been requested to be made an independent IG by FHIR Infrastructure Group, instead of its current placement in FHIR Core R4. Provenance and AuditEvent are the two FHIR resource profiles need to be reviewed and updated. Gary collaborating with MvdZ on this.
   b. JIRA-based PSS has received TSC approval.
   c. Michael vDZ has set up the first draft using FHIR IG Tool. See: https://build.fhir.org/ig/HL7/ehrs-rle-ig/

   a. SHIFT: Gora and John will next meet during the HL7 WGM in September 2022. They have developed a one page "flyer". They are now working on a 5-page Executive Summary using the ISO “Parthenon” Framework for images and hope to complete that soon.
   b. The SHIFT White Paper will be about 80 pages.
   c. With respect to SHIFT, John asked the WG to think about the creation of a "School Functional Profile" or profiles that could include SDOH or other areas.
   d. John reviewed "Brainstorming an Agenda for the Sep2022 WGM" and discussed some ideas the upcoming three (3) sessions at the WGM.
      i. John reviews opportunity for schools to move school-based health from paper to digital health records. Seeking thought leaders to move the agenda forward across industry. SHIFT project lays the ground work for the school based requirements.
   e. Mark requested information from Jonathan Linkous, former President of the American Telemedicine Association, about studies on school-based Telehealth. Jonathan responded with the following resources:
      i. "Rural School-Based Telehealth: How to Make It Happen"; at: https://pubmed.ncbi.nlm.nih.gov/18626109/

EHR-S FM R3 (EHR WG Co-Chairs)

1. During the May 2022 Virtual HL7 WGM there was a session devoted to EHR-S FM R3. Please see the following link for minutes to that session, that describes the EHR WGs thoughts on moving forward in developing the new Release 3 of the EHR-S FM standard. https://confluence.hl7.org/download/attachments/60342055/DAQ3%20%28Thursday%29%20HL7%20WGM%20Minutes%20EHR-S%20FM%20R3%20Planning%202022-05.docx?version=2&modificationDate=1652457871394&api=v2

EHR WG Event and Parking Lot Discussions (NOTE: Unless otherwise specified all conference calls use the same Zoom meeting link as listed at the top of this document) - Deferred

1. EHR WG PBS (Project / Ballot Status) metrics
   a. EHR WG is in "GREEN" status in the "T1 Jan-May" column showing 1 demerit. The "PBS Metrics Color" shows "RED". So it's unclear what this means. Need clarification from HL7 HQ.
   b. Note that there are two work items that have completed ballot and reconciliation but are not yet published: 1) EHR-S Usability FP, 2) Podiatry FP. This may constitute the reason for the "RED" metric.
   c. All other required items are "green" (up to date). We will have to address some updates down the road, specifically our governing documents, dating back to March-May 2019 and needing renewal by 2024.

2. Standard Personal Health Record Project - ACTIVELY TRACKING
   a. Patient Empowerment has developed a PSS (https://jira.hl7.org/browse/PSS-2088). Since it is a "health record" proposal based on the PHR-S FM, the project should be sponsored by the EHR WG and co-sponsored by Patient Empowerment and others. We have long advocated end-to-end health data/record management to ensure trust, data integrity and fidelity. Storage (as described in this PSS) fits into that approach. We have maintained the Record Lifecycle Event Standards as part of the RI Sections of both the EHR and PHR System Functional Models, also included in the FHIR Record Lifecycle Event IG (http://hl7.org/fhir/ehrsrle/ehrsrle.html). The RLEs are also a key part of ISO 21089 "Trusted End-to-End Information Flows".
   b. The EHR WG reviewed the response earlier this June 2022 that Gary and Lincoln drafted, and accepted and posted it to the JIRA page for PSS 2088.
   c. Will await to see how this progresses as there are multiple comments having so far been made to this PSS.
   d. Will work closely with Patient Empowerment (PE) WG.

3. Inactive Projects - All inactive and complete projects where we are primary sponsor have been addressed. However there remain several 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).

4. Meetings – Unless otherwise specified these all use the GoToMeeting platform
   a. Podiatry FP: Most Fridays at 1200 ET US; on hold for the moment (uses GoTo Meeting).
   b. Reducing Clinician Burden (RCB) Main meeting: 2nd and 4th Mondays each month at 1500 ET US (alternating with the POHR meetings). Uses GTM.
   c. RCB Medication List Management and Reconciliation team meets every other Thursday at 1700 ET US (uses GTM).
d. RCB AI meetings start 12 July 2022, 1600-1700 ET and to continue 2nd and 4th Tuesdays each month (uses GTM).
e. Problem-Oriented Health Record Focus Team meets every other Monday at 1500 ET US (alternating with the RCB meetings) (uses GTM)
f. Dental Functional Profile; currently on HOLD. Uses Zoom. Meeting in Houston F2F 10-11 October 2022.
5. **Re-envisioning HL7 WGM EHR Mega Report-Out** - Discuss whether/how to conduct future EHR WG Mega Report-Out sessions at upcoming HL7 WGMs. We will defer Mega report out to F2F in January 2023.
   a. Suggest leverage HL7 Confluence EHR WG page to coordinate "mega-report" process; but requires a lot of coordination across interested parties.
   b. We have suspended the Mega Report Out sessions in the absence of face-to-face Working Group meetings. In Baltimore, we plan to consider this decision again.

**Adjourned at:** 4:00 PM ET

**Next meeting:** 2022-07-26

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