P1752 Working Group Meeting

Sponsored by IEEE Engineering in Medicine & Biology (EMB) Standards Committee

- 26 June 2018
- Teleconference
Attendance

- This document shows attendance from previous calls [https://tinyurl.com/yc3oxg6q](https://tinyurl.com/yc3oxg6q) (link in the chat window of join.me). **If you attended the call, please verify that your name is listed**
  - If not, email simona@openmhealth.org
- **Put your name and affiliation in the chat window for attendance today.**
  - If your name is not listed, or if you are joining only via phone, please email simona@openmhealth.org with “P1752 WG call” as subject
- Attendance is important for determining voting rights, so please remember to “check in”
- Voting rights are granted according to the P&P after attending two consecutive calls and by explicit request to the Secretary
IEEE Patent Policy
Participants have a duty to inform the IEEE

• Participants shall inform the IEEE (or cause the IEEE to be informed) of the identity of each holder of any potential Essential Patent Claims of which they are personally aware if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents.

• Participants should inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims.

Early identification of holders of potential Essential Patent Claims is encouraged.
Ways to inform IEEE

• Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); or

• Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible; or

• Speak up now and respond to this Call for Potentially Essential Patents

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair
Other guidelines for IEEE WG meetings

- All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
  - Don’t discuss the interpretation, validity, or essentiality of patents/patent claims.
  - Don’t discuss specific license rates, terms, or conditions.
    - Relative costs of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.
      - Technical considerations remain the primary focus
  - Don’t discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
  - Don’t discuss the status or substance of ongoing or threatened litigation.
  - Don’t be silent if inappropriate topics are discussed ... do formally object.

Patent-related information

The patent policy and the procedures used to execute that policy are documented in the:


Material about the patent policy is available at http://standards.ieee.org/about/sasb/patcom/materials.html

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org
Determination of Quorum

https://tinyurl.com/yc3oxg6q_
Approval of Agenda

1. Attendance
2. Call for Patents
3. Approval of agenda and prior minutes (if quorum present)
4. Updates from subgroups
5. Discussion: Clinical significance, relationship to EHR,
   Open mHealth on FHIR work
6. Other business
Approval of Prior Minutes
(May 22, June 5)
Update:
Physical Activity and Mobility (PA&M) Schema Subgroup
Physical Activity & Mobility Sub-group

1. Attendance (7 members)
2. Got to know more members
3. Reviewed general plan (timelines)
4. Two tasks
   - Task 1: A list of basic measures that apply to or maybe common to physical activities based on physiological changes, types of sensor measures about human movement that quantify PAM and correlate with an outcome measure. (Thanks to Norm, Pradeep, Simona, Agusti)
   - Task 2: Important PAM attributes (clinical and non-clinical)
     • Clinically important (sleep attributes document reviewed)
5. Proposed approaches
   • Work in two teams (2 tasks)
6. Next Meeting: Thursday June 28, 2018 (11am to 11:30am Eastern Time)

➢ If you would like to join our subgroup, please send email to simona@openmhealth.org or tug30821@temple.edu
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Update:
Sleep Schema Subgroup
Sleep subgroup meeting held on June 12, 2018

(1) Task group leads have reviewed/shared their group’s work, their experience and challenges;

(2) Task group leads are getting ready to lead the transition from exploration phase to document/report preparation phase (deliverables of stage 1);

   Thanks to Antoni, Josh and Ray

(3) Adjusted our stage 1 timeline (target date: July 14, 2018)

(4) Discussed the stage 2 work preparation
Execution according to the plan

(1) All task groups are making progress (continue exploration)
(2) Task leads have drafted/shared or will draft/share the documents in iMeet

Action items

(1) Each task group will provide overview/summary of their document in the next subgroup meeting (July 10, 2018)
(2) Review/Comment on the draft documents and try to complete as scheduled
(3) Leads upcoming sync up (July 6, 2018) via email
(4) Form stage 2 task groups and search leads
Sleep Schema Subgroup Update (pg.3)

- Sleep Schema Meeting Slides/Minutes:
  [http://sites.ieee.org/sagroups-1752/sleep-subgroup-meeting-materials/](http://sites.ieee.org/sagroups-1752/sleep-subgroup-meeting-materials/)

- Next Subgroup Meeting: July 10, 2018 11:30am to 12:30 pm (EDT)

- p1752.slack.com is created for collaboration. If interested, please send email to Josh Schilling at jschilling@VIBRENTHEALTH.COM

- Reminder: like to join our subgroup, please send email to simona@openmhealth.org or charlotte.chen@philips.com
Discussion:
Clinical significance, relationship to EHR, Open mHealth on FHIR work
Open mHealth work outside of P1752 WG

• We’re in Year 1 of 3 of an NIH R24 grant to develop and disseminate semantic standards for mobile health. Funding is for
  • P1752 work, secure IEEE approval
  • Develop Open mHealth on FHIR to relate Open mHealth to the dominant EHR data exchange standard
  • Define process of community governance over preferred/official Open mHealth schemas and OmH on FHIR profiles – will be done in conjunction with P1752
• mProv provenance work
Using mHealth Data in Frontline Care

• EHR is the workflow tool for frontline clinicians. For mHealth data to be used in clinical care, it has to get “into” the EHR.

• HL7 FHIR is the emerging standard API into and out of the EHR. For Open mHealth to be used at the point of care, we must have a FHIR equivalent.

• Open mHealth on FHIR work is driven by a basic use case
  • Step count for prevention of cardiovascular disease
  • Can generalize to co-managing other physical activity, sleep, mobility, etc disorders
Open mHealth on FHIR for Clinical mHealth Use

EHR System

SMART-on-FHIR environment
mDATA-clin app

EHR data

FHIR API endpoint

“R24 Server”

Shimmer

Data Store

basic computation
* e.g., sum, avg, max, min

FHIR API endpoint
(OmH instances in binary)

mDATA-pt app

authenticate and map to OmH schemas
digital biomarkers

Sensors and data clouds

FHIR API endpoint

OmH non-standard

OmH schemas
HL7 FHIR

• **Fast Healthcare Interoperability Resources**
  • they call schemas “resources”. There is a generic Observation resource that is constrained and extended using FHIR Profiles.
  • FHIR Implementation Guides tell the FHIR community how to use resources and profiles for specific use cases
  • FHIR has its own API (HAPI)

• The OmH on FHIR Implementation Guide (under development) will guide mappings of Open mHealth schemas to FHIR Observation resources
  • for each Open mHealth schema, there will be a corresponding FHIR Observation Profile (aka OmH on FHIR Profile)
Looking forward at other topics

• Important topics, like metadata and provenance
• The plan is to create additional subgroups: we have a limited amount of resources, so will proceed with those as time permits
• Any additional thoughts from the group about the topics covered in the last couple of calls, namely overall schema development and API
Future Work
Summary of Action Items
Future Meetings
Upcoming Meetings

• Main WG (please note changes from previous announcements)
  • July 17: 8 AM Pacific [CANCELED]
  • August 28: 8 AM Pacific [NEW DATE]

• Sleep subgroup
  • July 10, 2018 8:30am to 9:30 am (Pacific)

• PA&M subgroup
  • June 28, 2018 11 to 11:30 am (Eastern)
  • July 12, 2018 11 to 11:30 am (Eastern)
Adjournment