

P1752 Working Group Meeting

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

Please mark your attendance at:

<https://tinyurl.com/rnaacvsz>

(see chat window)

16 November 2021

Teleconference

Attendance

Attendance is important for determining voting rights, so please remember to “check in”. This document shows attendance of current and previous calls <https://tinyurl.com/rnaacvsz> (link in the chat window).

For today: you can mark your attendance at <https://tinyurl.com/rnaacvsz> with a 0 if you are non-voting or a 1 if you are a voting member, or put your name and affiliation in the chat window to “check in”. The Secretary will mark/verify attendance to establish quorum and to include in the minutes

- If your name is not listed in <https://tinyurl.com/rnaacvsz>, OR if you are joining only via phone, please email simona@openmhealth.org with “P1752 WG call” as subject

If you attended a previous call and your attendance was not noted, please email simona@openmhealth.org

Voting membership

Attendance is important for determining voting membership

After you've attended 2 consecutive meetings you are eligible for voting membership

If you wish to become a voting member, send an email with the request to simona@openmhealth.org

You don't need to be a voting member to participate in the WG or subgroup calls

You need to be a voting member to move or second motions and to vote whenever the WG entertains a motion (e.g., to approve the agenda, to approve an action by the WG, etc.)

If you miss 2 consecutive meetings, voting membership is revoked and can be gained again by attending 2 consecutive meeting and sending a request

Accommodation can be made for special circumstances, which should be brought to the Chair's attention

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**

Slide #1

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

Slide #2

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.**

For more details, see *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and *Antitrust and Competition Policy: What You Need to Know* at <http://standards.ieee.org/develop/policies/antitrust.pdf>

Slide #3

Patent-related information

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

- *IEEE-SA Standards Board Bylaws*
(<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>)
- *IEEE-SA Standards Board Operations Manual*
(<http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>)

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

Slide #4

IEEE SA Copyright Policy

IEEE SA Copyright Policy (November 2019)

- **By participating in this activity, you agree to comply with the [IEEE Code of Ethics](#), all applicable laws, and all IEEE policies and procedures including, but not limited to, the IEEE SA Copyright Policy.**
 - Previously Published material (copyright assertion indicated) shall not be presented/submitted to the Working Group nor incorporated into a Working Group draft unless permission is granted.
 - Prior to presentation or submission, you shall notify the Working Group Chair of previously Published material and should assist the Chair in obtaining copyright permission acceptable to IEEE SA.
 - For material that is not previously Published, IEEE is automatically granted a license to use any material that is presented or submitted.

IEEE SA Copyright Policy

- The IEEE SA Copyright Policy is described in the IEEE SA Standards Board Bylaws and IEEE SA Standards Board Operations Manual
- IEEE SA Copyright Policy, see
 - Clause 7 of the IEEE SA Standards Board Bylaws
<https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7>
 - Clause 6.1 of the IEEE SA Standards Board Operations Manual
<https://standards.ieee.org/about/policies/opman/sect6.html>
- IEEE SA Copyright Permission
 - <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/permissionltrs.zip>
- IEEE SA Copyright FAQs
 - <http://standards.ieee.org/faqs/copyrights.html/>
 - IEEE SA Best Practices for IEEE Standards Development
 - http://standards.ieee.org/develop/policies/best_practices_for_ieee_standards_development_051215.pdf
 - Distribution of Draft Standards (see 6.1.3 of the SASB Operations Manual)
 - <https://standards.ieee.org/about/policies/opman/sect6.html>

Determination of Quorum

<https://tinyurl.com/rnaacvsz>

Approval of Agenda

1. Attendance
2. Call for Patents, Code of Ethics, Copyright Policy
3. Approval of agenda and minutes (if quorum present)
4. Update from subgroups
5. 1752.1 metadata schemas in more detail
6. Other business

Approval of Prior Minutes

(October 12, 2021)

Update from Subgroups

P1752.2 Metabolic Subgroup

- Blood glucose measure first
- Started analysis of two use cases (out of four identified):
 - Type 1 diabetes: CGM
 - Type 2 diabetes on oral treatment: Blood Glucose Monitoring (BGM)
 - Type 2 diabetes on insulin: CGM
 - Prediabetes/Quantified self/biohacker: Continuous blood Glucose Monitoring (CGM) for response to food intake
- Focus on measures of interest and landscape analysis of measuring solutions
- Next call: Tuesday, November 30 at 8 am Pacific
<https://sagroups.ieee.org/1752/metabolic-subgroup/>

P1752.2 Cardio-respiratory Subgroup

- Next call: Friday, December 3 at 9 am Pacific (first Friday of the month)

1752.1 metadata schemas
in more detail

Intro to Schemas (see 10/12 call slides)

- A schema defines how instance data should look like in terms of data types, properties, etc.
- 1752.1 schemas are written in JSON Schema
<https://json-schema.org/>
- Documentation available here
<https://json-schema.org/understanding-json-schema/index.html>
- 1752.1 schemas, including metadata schemas
<https://opensource.ieee.org/omh/1752/-/tree/main/schemas/metadata>
and sample data are available on the repository
<https://opensource.ieee.org/omh/1752/-/tree/main>

Recap

- A schema defines how data should look like in terms of:
 - data type (number, string, object, array, etc.)
 - properties (which ones, required vs. not)
- A schema may reference other schemas and if so, the requirements of the referenced schemas apply (e.g., unit-value requires a number + a string)
- Validation checks that instance data matches the template (data type of all properties, required properties, values from value sets, etc.)
- Some constraints can be defined in JSON Schema (e.g., number must be non-zero, string must match a pattern, etc.)
- Additional logical constraints are at the implementation level

Instance = header + body

- Instance can be of data point or data series
- Header complies with header schema
<https://opensource.ieee.org/omh/1752/-/blob/main/schemas/metadata/header-1.0.json>
- In a data point, body complies with the schema identified in the header
<https://opensource.ieee.org/omh/1752/-/blob/main/schemas/metadata/data-point-1.0.json>
- In a data series, body is an array, each element complies with the schema identified in the header
<https://opensource.ieee.org/omh/1752/-/blob/main/schemas/metadata/data-series-1.0.json>

Examples: header and schema-id

- All sample data in metadata folder
https://opensource.ieee.org/omh/1752/-/tree/main/sample_data/metadata
- Required data elements, as defined with the “required” keyword in the schema
- Optional data elements
- “Minimum” metadata

Examples: data point and data series

- ambient temperature: data point
https://opensource.ieee.org/omh/1752/-/blob/main/sample_data/metadata/data-point-sample-data-ambient-temp.json
- physical activity: data point
https://opensource.ieee.org/omh/1752/-/blob/main/sample_data/metadata/data-point-sample-data-phys-activity.json
- ambient temperature: data series
https://opensource.ieee.org/omh/1752/-/blob/main/sample_data/metadata/data-series-sample-series-ambient-temp.json

Summary of Action Items

Future Meetings

Upcoming Meetings

- P1752.2 WG call
 - Tuesday ~~December 21~~ or January 4 at 8 am Pacific
- Cardio-respiratory subgroup:
 - Friday December 3 at 9 am Pacific
- Metabolic subgroup:
 - Tuesday November 30 at 8 am Pacific

Adjournment