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**Project: IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs)**

**Submission Title:** SC IETF November Slides

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**Re:** SC IETF November Slides

**Abstract:**

Opening Report and slides for SC IETF November Meeting.

**Purpose:** Provide information which kind of changes are needed to the standard.

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## Instructions for the WG Chair

- **The IEEE-SA strongly recommends that at each WG meeting the chair or a designee:**
  - **Show slides #1 through #4 of this presentation**
  - **Advise the WG attendees that:**
    - IEEE's patent policy is described in Clause 6 of the *IEEE-SA Standards Board Bylaws*;
    - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
    - There may be Essential Patent Claims of which IEEE is not aware. Additionally, neither IEEE, the WG, nor the WG Chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
  - **Instruct the WG Secretary to record in the minutes of the relevant WG meeting:**
    - That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
    - That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard
    - Any responses that were given, specifically the patent claim(s)/patent application claim(s) and/or the holder of the patent claim(s)/patent application claim(s) that were identified (if any) and by whom.
  - The WG Chair shall ensure that a request is made to any identified holders of potential essential patent claim(s) to complete and submit a Letter of Assurance.
  - It is recommended that the WG Chair review the guidance in *IEEE-SA Standards Board Operations Manual 6.3.5* and in FAQs 14 and 15 on inclusion of potential Essential Patent Claims by incorporation or by reference.
- **Note: WG** includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE-SA Standards Board.

## 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.**
- 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>

## 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](mailto:patcom@ieee.org)**

# INSTRUCTIONS FOR CHAIRS OF STANDARDS DEVELOPMENT ACTIVITIES

- **At the beginning of each standards development meeting the chair or a designee is to:**
  - Show the following slides (or provide them beforehand)
  - Advise the standards development group participants that:
    - IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
    - Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy;
    - Instruct the Secretary to record in the minutes of the relevant meeting:
    - That the foregoing information was provided and that the copyright slides were shown (or provided beforehand).

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- **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.**
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# 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
  - [https://standards.ieee.org/develop/policies/best\\_practices\\_for\\_ieee\\_standards\\_development\\_051215.pdf](https://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>

# Agenda for November

- Discuss what happened in the IETF 112 (November 8 – 12, 2021)

# IETF 112

- IETF 112 was held as virtual meeting between Monday 8<sup>th</sup> of November and Friday 12<sup>th</sup> of November.
- Timezone to be used in the virtual IETF meeting will be UTC and sessions will be held between 12:00-18:00 UTC.
- Meeting agenda will be found when it is ready from <https://datatracker.ietf.org/meeting/agenda/>.

# IETF 113

- IETF 113 will be held between Monday 19<sup>th</sup> of March and Friday 25<sup>th</sup> of March.
- This meeting will most likely be hybrid meeting, and the actual physical location will be somewhere in the Europe. The IETF is in the final discussions with the meeting site, but as has not yet finished the discussion they can't publish the location.

# Working groups to cover

- 6tisch - IPv6 over the TSCH mode of IEEE 802.15.4e
- Raw - Reliable and Available Wireless
- 6lo - IPv6 over Networks of Resource-constrained Nodes
- Roll - Routing Over Low power and Lossy networks
- Suit - Software Updates for Internet of Things
- Lpwan - IPv6 over Low Power Wide-Area Networks
- Lake - Lightweight Authenticated Key Exchange
- Anima – Autonomic Networking Integrated Model and Approach

# 6tisch -IPv6 over the TSCH mode of IEEE 802.15.4e

- All documents are now out as RFC.
- The working group will most likely be closed soon.

# Raw - Reliable and Available Wireless

- Did meet during IETF 112
  - Minutes: <https://notes.ietf.org/notes-ietf-112-raw>
  - [Video recording](#)
- L-Band Digital Aeronautical Communications System (publication requested)
  - Air-to-Ground and Air-to-Air plane communications
  - [draft-ietf-raw-ldacs](#)
- Raw Technologies (new versions)
  - Wi-Fi 6, IEEE Std 802.15.4 TSCH, 3GPP 5G, LDACS
  - [draft-ietf-raw-technologies](#), [draft-ietf-raw-architecture/](#)
- Use Cases (new version)
  - Aeronautical Communications, Amusement Parks, Wireless for Industrial Applications, Pro Audio and Video, Wireless gaming, UAV platooning and control, Edge Robotics control, Emergencies: Instrumented emergency vehicle
  - [draft-ietf-raw-use-cases](#)
- Operations, Administration and Maintenance features for RAW (new version)
  - New draft listing the requirements of the operation, administration and maintenance features recommended to construct a predictable communications infrastructure on top of a collection of wireless segments.
  - [draft-ietf-raw-oam-support](#)

# 6lo - IPv6 over Networks of Resource-constrained Nodes

- Did meet during IETF 112
  - Minutes: <https://datatracker.ietf.org/doc/minutes-112-6lo/>
  - [Video recording](#)
- Most of stuff submitted for publication.
- Still working on the Applicability and Use Cases draft, and it is now in the WGLC.
- New work on SCHC-compressed packets over IEEE 802.15.4 networks:
  - [draft-gomez-6lo-schc-15dot4/](#)

# Roll - Routing Over Low power and Lossy networks

- Did meet during IETF 112
- Minutes:  
<https://datatracker.ietf.org/doc/minutes-112-roll/>
- [Video recording](#)
- Do have interms
- Published the documents 6tisch was waiting.

# Suit - Software Updates for Internet of Things

- Did meet during IETF 112
  - Minutes: <https://notes.ietf.org/notes-ietf-112-suit>
  - [Video recording](#)
- Information model is now in RFC editor queue.
- Working on manifest, new work on firmware encryption and secure reporting of update status

# Lpwan - IPv6 over Low Power Wide-Area Networks

- Did meet during IETF 112
- Minutes:  
<https://datatracker.ietf.org/doc/minutes-112-lpwan/>
- [Video recording](#)
- Do have lots of interim meetings.
- SCHC for NB-IoT and SigFox in progress.

# Lake - Lightweight Authenticated Key Exchange

- Did meet during IETF 112
  - Minutes: <https://notes.ietf.org/notes-ietf-112-lake>
  - [Video recording](#)
- They have some interim meetings.
- Working on the Ephemeral Diffie-Hellman over COSE (EDHOC)
  - [draft-ietf-lake-edhoc](#)
- EDHOC/OSCORE is something that is interesting for [draft-ietf-6tisch-minimal-security](#)

# Anima – Autonomic Networking Integrated Model and Approach

- Did meet during IETF 112
  - Minutes:  
<https://notes.ietf.org/notes-ietf-112-anima>
  - [Video recording](#)

# BoFs in IETF 112

- Two BoF requests already in
  - SCIM Industry Next Steps
  - Privacy Preserving Measurement
- Deadline for BoF requests is 2021-09-10.
- Only the Privacy Preserving Measurement was approved as BoF.

## SINS – SCIM Industry Next Steps

- The System for Cross-domain Identity Management (SCIM) specification is an HTTP-based protocol that makes managing identities in multidomain scenarios easier to support via a standardized service.
- With the wide adoption of SCIM, there is a need to update and push the published RFCs as standards. The updates are to enable better scalability, database synchronization and improved automation of SCIM.
- Instead of having BoF they re-chartered SCIM to work on the update.

# Privacy Preserving Measurement

- There are many situations in which it is desirable to take measurements of data which people consider sensitive. For instance, one might want to measure web sites that do not render properly or propagation of some disease. Conventional methods require collecting individual measurements and then aggregating them, thus representing a threat to user privacy.
- New cryptographic techniques address this gap by splitting up measurements between multiple servers which can jointly compute the aggregate value without any server learning the value of individual responses.
- Minutes: <https://datatracker.ietf.org/doc/minutes-112-priv/>
- [Video recording](#)
- There was enough interest and working group chartering process will start.