

Maintenance Task Group Conference Call

December 2, 2020
Paul Congdon

MEETING INTRODUCTION



FOR IEEE 802.1 WORKING GROUP AND TASK GROUPS

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).
- Ask participants to register attendance in IMAT: <https://imat.ieee.org>

IEEE SA COPYRIGHT POLICY

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>

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**

Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct

- All participants in IEEE-SA activities are expected to adhere to the core principles underlying the:
 - [IEEE Code of Ethics](#)
 - [IEEE Code of Conduct](#)
- The core principles of the IEEE Codes of Ethics & Conduct are to:
 - *Uphold the highest standards of integrity, responsible behavior, and ethical and professional conduct*
 - *Treat people fairly and with respect, to not engage in harassment, discrimination, or retaliation, and to protect people's privacy.*
 - *Avoid injuring others, their property, reputation, or employment by false or malicious action*
- The most recent versions of these Codes are available at <http://www.ieee.org/about/corporate/governance>

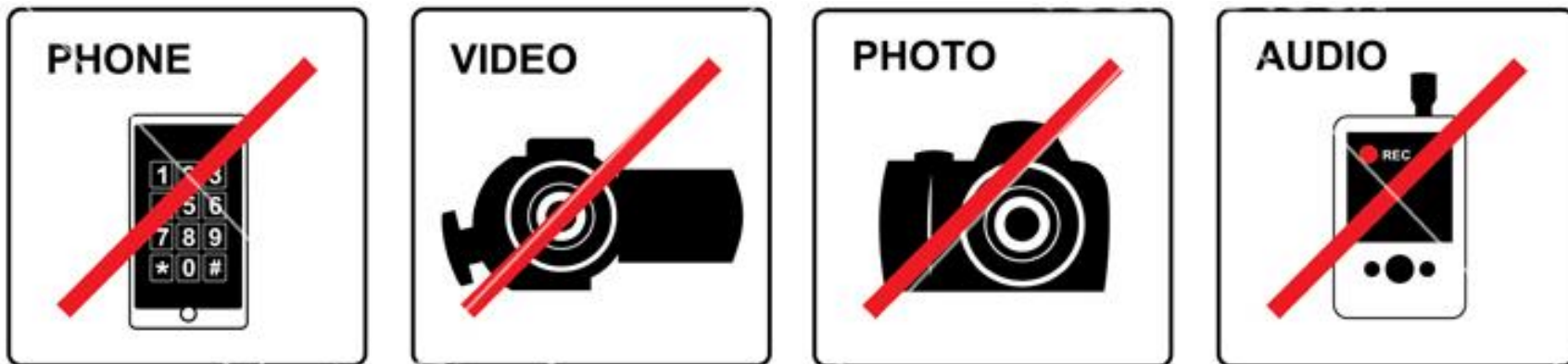
Participants in the IEEE-SA “*individual process*” shall act independently of others, including employers

- The [IEEE-SA Standards Board Bylaws](#) require that “*participants in the IEEE standards development individual process shall act based on their qualifications and experience*”
- This means participants:
 - **Shall act & vote** based on their personal & independent opinions derived from their expertise, knowledge, and qualifications
 - **Shall not act or vote** based on any obligation to or any direction from any other person or organization, including an employer or client, regardless of any external commitments, agreements, contracts, or orders
 - **Shall not direct** the actions or votes of other participants or retaliate against other participants for fulfilling their responsibility to act & vote based on their personal & independently developed opinions
- By participating in standards activities using the “*individual process*”, you are deemed to accept these requirements; if you are unable to satisfy these requirements then you shall immediately cease any participation

IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints

- The [IEEE-SA Standards Board Bylaws](#) (clause 5.2.1.3) specifies that *“the standards development process shall not be dominated by any single interest category, individual, or organization”*
 - This means no participant may exercise *“authority, leadership, or influence by reason of superior leverage, strength, or representation to the exclusion of fair and equitable consideration of other viewpoints”* or *“to hinder the progress of the standards development activity”*
- This rule applies equally to those participating in a standards development project and to that project’s leadership group
- Any person who reasonably suspects that dominance is occurring in a standards development project is encouraged to bring the issue to the attention of the Standards Committee or the project’s IEEE-SA Program Manager

DECORUM



- **Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (*SASB Ops Manual 5.3.3.3*)**
- **Video/Audio recording by participants is prohibited (*SASB Ops Manual 5.3.3.2*)**
- **Photography by permission only (*SASB Ops Manual 5.3.3.2*)**
- **Cell phone ringers off please**

REGISTER ATTENDANCE FOR MINUTES

Please **register** your attendance at IMAT: <https://imat.ieee.org>

- This requires a free IEEE Account.
- Please sign up if you do not yet have an IEEE Account.

Schedule		7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
TSN	TG																	

Please record your attendance for an active meeting (denoted by a yellow bar) by clicking on the yellow bar. Once your attendance has been recorded, the yellow bar changes to a green bar.

The data from IMAT is used as the meeting participant list.

ELECTRONIC MEETING GUIDELINES

Please provide your information

- Full name
- Affiliation, as part of your name, e.g., in brackets
- (May provide them in the chat window.)

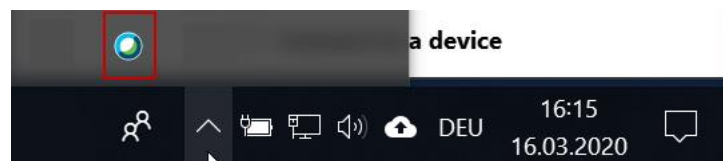
Please **mute** yourself when you are not speaking

Please put yourself into the queue “at the mic” via the Chat, e.g.,: “+q” / “-q”

Changing your data in Webex

Step 1

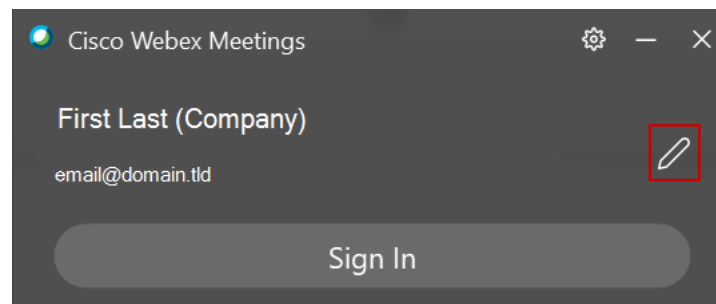
- Go to the "Display hidden icons" arrow in the Windows task bar



- Right-click on the Webex icon and select "Open Cisco Webex Meetings"

Step 2

- In the Webex Windows that opens, Click on the pencil icon next to your display information



- (May need to Exit Webex via the cog wheel and restart it to see the pencil icon.)

Maintenance Task Group Meeting

December 2, 2020 – 12PM EDT

Agenda

<https://1.ieee802.org/maintenance-tg-electronic-meeting-agenda-december-2-2020/>

AS-2020/Cor1 Maintenance Items Review

Paul Congdon

AS-2020/Cor1 Motivation

0295: Inverted logic setting announceInterval, SyncIntervalSetting and GptpCapableIntervalSetting

- State Machines in Clauses 10.3.17.3, 10.3.18.3, 10.4.3.3
- Example: SET_INTERVALS state of the AnnounceIntervalSetting state machine (Figure 10-19)

```
If (announceInterval < oldAnnounceInterval)
    announceSlowdown = TRUE;
else
    announceSlowdown = FALSE;
```



```
If (announceInterval > oldAnnounceInterval)
    announceSlowdown = TRUE;
else
    announceSlowdown = FALSE;
```

- Similar changes needed in SyncIntervalSetting state machine (Figure 10-20) and GptpCapableIntervalSetting state machine (Figure 10-23)

Include Other Maintenance Items?

- Currently 19 open maintenance items against 802.1AS-2020
- P802.1ASdm is an available vehicle for other non-urgent items
- Criteria for including other items:
 - clarity and detail of the proposed fix
 - critical to fix (sooner than later)
 - risk of delaying the Corrigendum

Recommended items

- Review of open items by Geoff Garner, Craig Gunter and Paul Congdon recommended consideration of the following items:
 - [0275](#): BMCA conformance requirements of 5.4.1
 - [0276](#): Incorrect reference in PICs item MINTA-16 of A.7
 - [0277](#): Missing support of the Common Mean Link Delay Service (CMLDS)
 - [0278](#): Inconsistent Clause 5 and PICS with respect to state machines
 - [0288](#): syncSequenceld is wrong state machine blocks
 - [0290](#): Incorrect details in NOTE on burstDuration calculation
 - [0291](#): Improperly named field rxTime of CSN TLV
 - [0296](#): Missing close curly brace

Brief Vehicle Status Update

- Maintenance database site issues resolved – current status believe to be accurate:
<https://www.802-1.org/>
- Current Document Vehicles for open items
 - 802.1ABcu/D1.0 WG ballot completed Jan 13th. Editor is preparing next draft.
 - 802.1Qcw/D1.2 WG ballot closed September 28th. Comment resolution continues on TSN calls
 - 802.1Qcr-2020 published on November 6th, 2020
 - 802.1Qcx-2020 published on October 5th, 2020
 - 802.1CBdb/D1.0 WG ballot closed Oct 3rd. Comment resolution ongoing??
 - 802.1CBcv/D1.0 draft available. WG ballot closes ??
 - 802.1Qcz/D1.3 WG recirc ballot completed September 8th. Preparing draft for SA balloting.
 - 802.1Qdd/D0.4 TG ballot closes on January 8th, 2021.
 - 802.1Qdj/D0.1 TG ballot closes on December 6th, 2020.
 - 802.1Q-Rev/D0.2 WG ballot comment resolution completed November Plenary. Editor preparing next draft
 - 802.1BA-Rev project approved
- Open Items awaiting document vehicles
 - 0174 – waiting for 802.1AC
 - 0237 – waiting for 802

New Maintenance Items

- [0285](#): 802.1CB-2017 10.4.1.4 frerSeqRcvyReset
- [0286](#): List Execute state machine
- [0287](#): Update IEEE Std 802 to reflect withdrawal of IEEE Std 802.1D
- [0288](#): syncSequenceld is wrong state machine blocks
- [0289](#): Several references to 11.2.13 need to be removed
- [0290](#): Incorrect details in NOTE on burstDuration calculation
- [0291](#): Improperly named field rxTime of CSN TLV
- [0292](#): gPTP Communication Path should be gPTP communication path
- [0293](#): LogAnnounceInterval needs to be logAnnounceInterval
- [0294](#): Transmit ptpTimescale for domain 0 as TRUE and ignored on receipt
- [0295](#): Inverted logic setting announceInterval, SyncIntervalSetting and GptpCapableIntervalSetting
- [0296](#): Missing close curly brace
- [0297](#): Editorial corrections for readability
- [0298](#): Remove reference to 802.1D from 802.1AC
- [0299](#): Remove 802.1D references from 802.1BA
- [0300](#): Remove 802.1D references from 802.1BR
- [0301](#): ieee8021QBridgeStaticUnicastReceivePort and ieee8021QBridgeStaticMulticastReceivePort
- [0304](#): IEEE8021PriorityCodePoint misnamed
- [0305](#): MAC address requirements of LLDP

Existing Maintenance Items

- [0232](#): Maintenance requires: PICS inconsistent in 802.1Q-2018
- [0242](#): IEEE Std 802.1Qcp-2018: Collected issues on data consistency and others
- [0248](#): Managed objects for ECP in 802.1Q-2018
- [0270](#): Missing transmission selection algorithm configuration management
- [0271](#): Default configuration for bridges that support credit-based shaper
- [0272](#): Misuse of the word, “default” in 802.1Q-2018 clause 34.5