

IEEE 802.3 Maintenance Task Force

10 November 2020

Adam Healey, Broadcom Inc.
Chair, IEEE 802.3 Maintenance TF
Vice Chair, IEEE 802.3 Ethernet WG

Voting at electronic meetings

- IEEE 802.3 Operations Manual 3.4.2

There are two type of votes in the TF; votes on motions and votes in straw polls.

In face-to-face meetings where a TF is operating with membership rules for voting (see 3.3) only the TF members may make and vote on motions. In face-to-face meetings where membership rules are not in force all TF participants may make and vote on motions, subject only to the provision that they believe that they are qualified to vote on the matter before the TF. ~~Electronic meetings shall only consider motions to progress a draft and only when balloting is substantially complete.*~~ Electronic meetings that will consider motions shall be approved by the WG Chair prior to the meeting announcement. In such meetings only IEEE 802.3 Working Group members may make and vote on motions. If a motion is not approved by unanimous consent it shall be taken as a roll call vote.

In all cases, regardless of any membership rules that may or may not be in force, all participants who feel qualified may participate in a straw poll.

* Rule suspension [3] per IEEE 802.3 WG 10-day electronic ballot (closed 10 May 2020).

Agenda

- Review and approve agenda
- Approve minutes
- Guidelines for IEEE-SA Meetings
- IEEE-SA Copyright policy
- Participation in IEEE 802 Meetings
- Attendance procedures
- Response to comments from ISO/IEC JTC 1/SC 6 ballot
- Drafts to ISO/IEC JTC 1/SC 6
- Revision plan update
- Clause 104 Maintenance PAR
- Consider open maintenance requests
- Future meetings

Agenda and minutes motions

- Motion #1: Approve the agenda
 - M: J. Lewis S: D. Law
 - Procedural (> 50%)
 - Passed by unanimous consent at 10:05 am EST
- July 2020 minutes were posted 22 July 2020
- Motion #2: Approve the [July 2020](#) minutes
 - M: C. Jones S: P. Anslow
 - Procedural (> 50%)
 - Passed by unanimous consent at 10:07 am EST

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**

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).

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>

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

Attendance procedures

- IEEE Meeting Attendance Tool
 - <http://imat.ieee.org/>
- For more information, please see...
 - http://ieee802.org/3/minutes/attendance_procedures.pdf

The screenshot illustrates the steps to select a meeting and a working group for attendance. It includes a calendar view for October and November 2020, a list of active meetings, a list of working groups, and a detailed schedule for the selected meeting.

Active Meetings

Please select the meeting you are currently attending

Meeting Name	Location	Date
IEEE P2800 Working Group - November Virtual Meeting Series		06-Nov-2020
802 Plenary Session - Nov 2020 Electronic	Piscataway US	30-Oct-2020
802 LMSC EC Telecon 2020Q4		01-Oct-2020

Select Working Group

- C/LM/IEEE 802 Attendance
- C/LM/WG802.1 Attendance
- C/LM/WG802.3 Attendance
- C/LM/WG802.11 Attendance
- C/LM/WG802.15 Attendance
- C/LM/WG802.18 Attendance
- C/LM/WG802.19 Attendance
- C/LM/WG802.24 Attendance

Schedule

	FRI	SAT	SUN	MON	TUE	WED	THU	FRI	SAT	SUN	MON	TUE
	30-Oct-2020	31-Oct-2020	1-Nov-2020	2-Nov-2020	3-Nov-2020	4-Nov-2020	5-Nov-2020	6-Nov-2020	7-Nov-2020	8-Nov-2020	9-Nov-2020	10-Nov-2020
IEEE 802.3 Maintenance Task Force meeting												
IEEE P802.3ck - Oct/Nov Comment Resolution Series #7												

The interface shows a calendar for October and November 2020. The '802 Plenary Session - Nov 2020 Electronic' meeting is selected for October 30th. The 'C/LM/WG802.3 Attendance' working group is selected. The schedule for the IEEE 802.3 Maintenance Task Force meeting is shown for the week of November 2nd to 8th, with a yellow highlight on Tuesday, November 3rd, from 9:00 to 11:00 AM.

Response to comments from ISO/IEC JTC 1/SC 6 ballot

[Draft liaison letter]

Drafts to ISO/IEC JTC 1/SC 6

[Draft liaison letter, motions]

Liaison letters motion

- Motion #3:
Approve IEEE_802d3_to_ISOIEC_JTC1_SC6_1120_1_draft.pdf and IEEE_802d3_to_ISOIEC_JTC1_SC6_1120_2_draft.pdf with editorial license granted to the Chair (or his appointed agent) as liaison communications from the IEEE 802.3 Working Group to ISO/IEC JTC 1/SC 6.
 - M: P. Anslow S: M. Hajduczenia
 - Technical ($\geq 75\%$)
 - Passed by unanimous consent at 10:34 am EST

Revision plan update

Progress since last meeting

- IEEE P802.3 revision (IEEE 802.3dc) PAR approved 24 September

Considerations for the revision plan

Consideration	Comments
Target a short revision timeline	<ul style="list-style-type: none">• Minimize disruption to project schedules• Verify correct implementation of the roll-up and ballot maintenance changes• Use targeted maintenance projects for more “heavy lifting” (e.g., cq, cr, cv)• Requires forbearance of the balloting group
Able to incorporate approved amendments into the revision draft prior to initial SA ballot	<ul style="list-style-type: none">• Add amendment as balloted and approved• It is a hardship on the editorial team (use sparingly)
SA ballot of amendments can be done in parallel with the revision	<ul style="list-style-type: none">• Amendment(s) requires one additional recirculation after completion of revision SA ballot• Align to final revision draft• Can be placed on the same RevCom agenda as the revision draft (prefer not to do so)

Possible revision schedules

Project	2020						2021												2022					
	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
P802.3ck									WGB										SAB					
P802.3cp	<<<	WGB			SAB							Std!												
P802.3cr	<<<	SAB				Std!																		
P802.3cs							WGB				SAB				Std!									
P802.3ct	<<<	WGB		SAB								Std?												
P802.3cu	SAB					Std!																		
P802.3cv	<<<	WGB			SAB				Std!															
P802.3cw											WGB						SAB							Std!
P802.3cx													WGB				SAB							Std!
P802.3cy																								
P802.3cz													WGB								SAB			
P802.3da													WGB								SAB			
P802.3db																								
Revision1			PAR						WGB				SAB						Std?					
Revision2			PAR										WGB				SAB						Std?	
Revision3			PAR												WGB				SAB					Std?
SASB		d	rb	d		sd		nr	d	d	s	nr	d		d	s	d	nr	s					

Key	
d	Nes/RevCom submission deadline
n	NesCom teleconference
r	RevCom teleconference
b	SB teleconference
s	SASB meeting series

Clause 104 Maintenance PAR

[Presentation, draft PAR]

Consideration of maintenance requests

Maintenance request status

- 17 new requests received since the July 2020 meeting
- 62 open maintenance requests
- Current status of open requests
 - Approved 0
 - Balloting 0
 - Ready for ballot 41
 - Awaiting clarification 0
 - Errata 1
 - To be categorized 20
- Also see http://www.ieee802.org/3/maint/requests/open_num.html

Maintenance requests to be categorized

- For consideration this meeting

No.	Date	Standard	Clause	Subject
1362	09-Nov-19	802.3-2018	44.3	Remove "informative" label from Table 44-2
1365	13-Jul-20	802.3-2018	86.10.3.2	Figures out of order
1366	21-Jul-20	802.3ca-2020	142.3.5.1	End-of-burst delimiter definition
1367	23-Jul-20	802.3ca-2020	141.2.6	Formula alignment
1368	10-Aug-20	802.3-2018	Various, see details	"Start-up" vs. "startup"
1369	10-Aug-20	802.3-2018	113.3.2.2.6	"Control codes" vs. "control code"
1370	10-Aug-20	802.3-2018	Various, see details	Spelling error
1371	10-Aug-20	802.3-2018	45.2.1.188.4	"Low-power ability" vs. "low-power feature"
1372	10-Aug-20	802.3ch-2020	45.5.3.3	Incorrect PICS item
1373	10-Aug-20	802.3ch-2020	45.5.3.7	Incorrect PICS item
1374	10-Aug-20	802.3-2018	104.9.4.3	Incorrect status/support in PICS

More maintenance requests to be categorized

- For consideration this meeting, continued

No.	Date	Standard	Clause	Subject
1375	10-Aug-20	802.3cg-2019	30.15	Incorrect subclause title
1376	10-Aug-20	802.3-2018	45.2.1.16	Missing ability bit descriptions
1377	10-Aug-20	802.3-2018	97.1.2	"Out-of-band" vs. "out of band"
1378	10-Aug-20	802.3-2018	Table 101-3	Incorrect values in table
1379	13-Aug-20	802.3ch-2020	149.3.7.2.2	Unused variables
1380	08-Sep-20	802.3.2-2019	Various, see details	MAC address format
1381	01-Oct-20	802.3-2018	Table 82-1	Indicate ITU-T G.8312 uses O code 0xC

Maintenance request 1362

- Table 44–2—Round-trip delay constraints ~~(informative)~~
- Add a footnote to Table 44–2 similar to footnote c) in Table 80–5
- There is no normative reference to the table so the “informative” designation is unnecessary
- It is also not compliant to IEEE-SA rules
- Generated in response to Mandatory Editorial Coordination (MEC) on IEEE P802.3ch
- Set the status to “Ready for ballot”

Complete: Yes In scope: Yes Errata: No
--

Maintenance request 1365

- Figure 86–7 appears after Figure 86–8 (out of order)
- The order is related to the relative size of the figures
- It is a known issue and it cannot be easily changed without adding a large blank space in the document
- Further discussion on how to proceed is necessary
- Keep status as “Received”

Complete: Yes In scope: Yes Errata: No
--

Maintenance request 1366

- End of burst delimiter (EBD257) is defined to be 257 zeros
- EPON OLT receiver react to this pattern in a way that makes it difficult for a compliant PCS to detect the pattern
- Change the delimiter to a balanced 257-bit pattern that does not otherwise occur in a normally transcoded 257-bit sequence
- Set the status to “Ready for ballot”
- May want to consider a corrigendum for this change

Complete: Yes In scope: Yes Errata: No
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Maintenance request 1367

- In 141.2.6, center the formula “r1/r2GBASE-PQc-db”
- It was noted that this change was deliberate
- Further discussion on how to proceed is required
- Keep status as “Received”

Complete: Yes
In scope: Yes
Errata: Yes

Maintenance request 1368

- Change all instances of “start-up” to “startup”
- Set the status to “Ready for ballot”

Complete: Yes
In scope: Yes
Errata: No

Maintenance request 1369

- In the first row (heading) of Table 55–1, Table 113–1, Table 113–2, and Table 126–1, change “control codes” to “control code”
- Set the status to “Ready for ballot”

Complete: Yes
In scope: Yes
Errata: No

Maintenance request 1370

- Change “AUTO-NEGOTATION” to “AUTO-NEGOTIATION” in a number of figures (Layer model diagrams)
- Set the status to “Ready for ballot”

Complete: Yes In scope: Yes Errata: No
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Maintenance request 1371

- In 45.2.1.188.4, change “low-power ability” to “low-power feature” in the first sentence of the subclause
- Set the status to “Ready for ballot”

Complete: Yes
In scope: Yes
Errata: No

Maintenance request 1372

- In 45.2.1.192.1, PMA/PMD reset was changed to refer to 149.4.2.1 for the time allowed for reset
- The PICS for this requirement was not updated to match
- The proposed revision text requests to remove MM207 and renumber the following items
- It seems MM207 should instead be updated to reflect the actual requirement
- As an alternative, the item could be deleted if the “shall be” associated with it in 45.2.1.192.1 is softened to “is”
- Request submitter to resubmit with updated proposed revision text

Complete: Yes In scope: Yes Errata: No
--

Maintenance request 1373

- In 45.2.3.78.1, PCS reset was changed to refer to 149.4.2.1 for the time allowed for reset
- The PICS for this requirement was not updated to match
- The proposed revision text requests to remove RM196 and renumber the following items
- Instead, it seems RM196 should be updated to reflect the new requirement
- As an alternative, the item could be deleted if the “shall be” associated with it in 45.2.3.78.1 is softened to “is”
- Request submitter to resubmit with updated proposed revision text

Complete: Yes In scope: Yes Errata: No
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Maintenance request 1374

- In 104.9.4.3 (PICS), add a “N/A []” option for conditional items PD19 through PD22
- Remove asterisk (*) from item labels in “Status” column
- Set the status to “Ready for ballot”

Complete: Yes In scope: Yes Errata: No
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Maintenance request 1375

- IEEE Std 802.3cg-2019 changed the title of Clause 104 to “Power over Data Lines (PoDL) of Single-Pair Ethernet”
- The title of 30.15 “Layer management for Power...” needs to be changed to agree
- Set the status to “Ready for ballot”

Complete: Yes In scope: Yes Errata: No
--

Maintenance request 1376

- Add subclauses to 45.2.1.16 to accompany the ability bits added for 100BASE-T1, 1000BASE-T1, 10BASE-T1L and 10BASE-T1S
- Set the status to “Ready for ballot”

Complete: Yes
In scope: Yes
Errata: No

Maintenance request 1377

- In 97.1.2, change “out-of-band” to “out of band” as it is not being used as a compound adjective
- Note: This also applies to 97.3.8 as modified by MR #1348
- Set the status to “Ready for ballot”

Complete: Yes In scope: Yes Errata: No
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Future meetings

- Future teleconference meetings will be announced to the reflector

Adjourn

- Motion #4: Adjourn
 - M: C. Jones S: G. Thompson
 - Procedural (> 50%)
 - Passed by unanimous consent at 12:06 pm EST