

IEEE 802.3 Maintenance Task Force

19 January 2021

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
- Clause 104 Maintenance PAR
- Response to comments from ISO/IEC JTC 1/SC 6 ballot
- Draft to ISO/IEC JTC 1/SC 6
- Revision plan update
- Consider open maintenance requests
- Future meetings

Agenda and minutes motions

- Motion #1: Approve the agenda as amended
 - M: D. Law S: R. Grow
 - Procedural (> 50%)
 - Approved by unanimous consent
- November 2020 minutes were posted 12 November 2020
- Motion #2: Approve the [November 2020](#) minutes
 - M: J. Lewis S: G. Zimmerman
 - Procedural (> 50%)
 - Approved by unanimous consent

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/>
 - Session access code: **Xxxxxxxx**
- For more information, please see...
 - http://ieee802.org/3/minutes/attendance_procedures.pdf

Active Meetings

Please select the meeting you are currently attending

802.1 Interim Session (Electronic) - Jan 2021	18-Jan-2021
IEEE 802.3 January Interim Series week 1	18-Jan-2021
802.11 Telecons (Jan 16-31)	16-Jan-2021
802.15 Electronic Interim - January 2021	12-Jan-2021
802 Telecons - January-February	04-Jan-2021

Access Code Required

Access to this Session requires a Session access code. If you are an attendee at this Session you should have received this code from your working group chair or vice-chair.

Session Access Code:

IEEE 802.3 January Interim Series week 1

Select Working Group

[C/LM/WG802.3 Attendance](#)

MON 18-Jan-2021	TUE 19-Jan-2021	WED 20-Jan-2021	THU 21-Jan-2021
--------------------	--------------------	--------------------	--------------------

[Manage Attendee](#)

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
IEEE 802.3 Maintenance Task Force meeting																	
IEEE P802.3cx ITSA TF interim teleconference																	
IEEE P802.3cz interim teleconference																	

Clause 104 Maintenance PAR

[Draft PAR, motion]

PAR motion

- Motion #3: Approve the IEEE P802.3dd Clause 104 Maintenance PAR in
https://www.ieee802.org/3/maint/public/P802_3dd_PAR_draft_1120.pdf.
 - M: G. Zimmerman S: G. Thompson
 - Technical ($\geq 75\%$)
 - Approved by unanimous consent

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

[Draft liaison letter]

Draft ISO/IEC JTC 1/SC 6

[Draft liaison letter, motion]

Liaison letters motion

- Motion #4:
Approve IEEE_802d3_to_ISOIEC_JTC1_SC6_0121_1_draft.pdf and IEEE_802d3_to_ISOIEC_JTC1_SC6_0121_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: K. Lusted
 - Technical ($\geq 75\%$)
 - Approved by unanimous consent

Revision plan update

Revision status update

- IEEE P802.3 revision (IEEE 802.3dc) PAR approved 24 September
- Editorial team forming
 - Pete Anslow
 - Marek Hajduczenia
 - Jon Lewis
 - Additional volunteers are still welcome
 - Thanks to all volunteers!

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 (but 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																							WGB	
P802.3cz															WGB									SAB
P802.3da													WGB								SAB			
P802.3db															WGB				SAB					Std!
Revision?			PAR										WGB				SAB							Std?
SASB		d	rb	d		sd	nr	d	d	s	nrd	nrb		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

Consideration of maintenance requests

Maintenance request status

- 7 new requests received since the November 2020 meeting
- 69 open maintenance requests
- Current status of open requests
 - Approved 0
 - Balloting 0
 - Ready for ballot 51
 - Awaiting clarification 0
 - Errata 1
 - To be categorized 17
- 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
1365	13-Jul-20	802.3-2018	86.10.3.2	Figures out of order
1367	23-Jul-20	802.3ca-2020	141.2.6	Formula alignment
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
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
1382	19-Nov-20	802.3-2018	Various, see details	References to IEEE Std 802.1D
1383	19-Nov-20	802.3.1-2013	Various, see details	References to IEEE Std 802.1D
1384	09-Dec-20	802.3-2018	Various, see details	Isolation requirements
1385	09-Dec-20	802.3-2018	Various, see details	Annex 120D jitter tolerance
1386	12-Dec-20	802.3ca-2020	56.1.3	Incorrect table entries

More maintenance requests to be categorized

- Received after the deadline for consideration at this meeting

No.	Date	Standard	Clause	Subject
1387	21-Dec-20	802.3cd-2018	Various, see details	Precoder control
1388	06-Jan-21	802.3-2018	139.3.1	Error converting pause_quantum to bit times

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 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 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
--

Maintenance request 1378

- Change “–” entries in Table 101-3 to “–1” (2 instances)
- Change status to “Ready for ballot”

Complete: Yes
In scope: Yes
Errata: No

Maintenance request 1379

- Remove the definitions of variables “rfer_test_if” from 149.3.7.2.2 and “RFER_test_if” from 97.3.6.2.2 because they are both unused
- Change status to “Ready for ballot”

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

Maintenance request 1380

- IEEE Std 802.3.2-2019
- There are differences between YANG and IEEE 802.3 MAC address formats
- Change MAC address defined in ietf-yang-types module to ieee:mac-address defined in ieee802-types module
- Add import of ieee802-types.yang in EPON and OAM modules
- Request submitter to add the following link to the “RATIONALE FOR REVISION” as a reference for the motivation for the changes

<https://www.ieee802.org/1/files/public/docs2020/yangsters-smansfield-mac-address-0420-v01.pdf>

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

Maintenance request 1381

- ITU-T intends to use 64B/66B O code 0xC for “MTN Path” ordered set
- See <https://www.ieee802.org/3/minutes/sep20/incoming/SG15-LS269.pdf>
- Change Table 82-1 footnote “a” to indicate this
- This footnote already indicates O code usage for FlexE and Fibre Channel signal ordered sets
- Include bibliographical reference to “ITU-T G.8312 Interfaces for the metro transport network”
- Change status to “Ready for ballot”

Complete: Yes
In scope: Yes
Errata: No

Maintenance request 1382

- Technical aspects of IEEE Std 802.1D have been completely subsumed into IEEE Std 802.1Q
- IEEE 802.1 Working Group is planning to withdraw IEEE Std 802.1D
- Remove, replace or adjust references to IEEE Std 802.1D (or associated ISO/IEC standard)
- It was suggested that the proposed revision text be reviewed to ensure that there is no ambiguity in how to implement the changes
- In the meantime, keep the status of this request as “Received”

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

Adjourn

- Motion #5: Adjourn
 - M: M. Hajduczenia S: A. Ran
 - Procedural (> 50%)
 - Approved by unanimous consent

Future meetings

- Future teleconference meetings will be announced to the reflector