

IEEE 802.3 Maintenance Task Force

23 January 2024

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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 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.

General decorum

- An officer is permitted to make an audio or slideshow recording of this meeting exclusively for the purpose of generating minutes which shall not be copied or distributed. IEEE 802.3 meetings do not use this option. Recording of the proceedings by any other participant or observer, in part or in whole, via any means, is prohibited. (*January 2020 IEEE-SA Standards Board Ops Manual 5.3.3.2*)
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (*January 2020 IEEE-SA Standards Board Ops Manual 5.3.3.3*)
- Please observe proper decorum in meetings

Teleconference decorum

- **Please MUTE if you are not speaking**
- The conference tool in use for this meeting has a chat function. Public, and in some cases private chats, are available to the teleconference host after the meeting, and should be treated as a public statement that could appear in the minutes. The public chat function shall only be used for official business related to the meeting, as determined by the Chair. Parallel discussions between participants using the public chat function can be a distraction from the meeting and the Chair or designee will ask participants to cease such discussions should they occur.

Agenda

- Review and approve agenda
- Approve meeting minutes
- Guidelines for IEEE-SA Meetings
- IEEE-SA Copyright policy
- Participation in IEEE 802 Meetings
- Attendance procedures
- Consideration of maintenance requests
- Future meetings

Agenda motion

- Motion #1: Approve the agenda
 - M: J. Lewis S: R. Voss
 - Procedural (> 50%)
 - Passed by unanimous consent at 2:12 pm EST
- November 2023 minutes were posted on 14 November 2023
- Motion #2: Approve the [November 2023](#) minutes
 - M: G. Thompson S: M. Hajduczenia
 - Procedural (> 50%)
 - Passed by unanimous consent at 2:14 pm EST

GUIDELINES FOR IEEE SA 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. Formally object to the discussion immediately.

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>

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>
- IEEE SA Best Practices for IEEE Standards Development
 - http://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/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: **XXXXXX**
- For more information, please see...
 - http://ieee802.org/3/minutes/attendance_procedures.pdf

Consideration of maintenance requests

Maintenance request status

- 5 new requests received
- 34 open maintenance requests
- Current status of open requests
 - Approved 0
 - Balloting 0
 - Ready for ballot 29
 - Awaiting clarification 0
 - Errata 0
 - To be categorized 5
- Also see http://www.ieee802.org/3/maint/requests/open_num.html

Maintenance requests to be categorized

- Deadline for consideration at this meeting was 19 December 2023
- For consideration this week

No.	Date	Standard	Clause	Subject
1421	11-Oct-23	802.3-2022	97.4.2.4	infofield_complete behavior
1422	11-Oct-23	802.3-2022	97.4.2.4.10	Requirement conditional on EEE
1423	08-Nov-23	802.3ck-2022	Various, see details	AC-coupling to test points
1424	08-Nov-23	802.3ck-2022	Various, see details	Add measurement frequency
1425	13-Dec-23	802.3-2022	Figure 119-11	Typo

Maintenance request 1421

- In 97.4.2.4, ...

Each InfoField shall be transmitted at least 256 times to ensure detection at link partner. It is recommended that InfoField should be transmitted at least 256 times with each change to octets 7 to 10. Thus each encoding shown in Table 97-7 or Table 97-8 should be sent 256 times. Only when loc_rcvr_status has been indicated in at least 256 InfoFields should [sic] infofield_complete be set TRUE. Any change in PMA_state shall result in infofield_complete being set to FALSE, and at least 256 InfoField transmissions shall occur with the new PMA_state value before infofield_complete is set TRUE.

- Similarly in 149.4.2.4, ... [this change is stated as “may be done”]

InfoField shall be transmitted at least 256 times with each change to octets 7 to 10. Thus each encoding shown in Table 149-10 or Table 149-11 shall be sent 256 times. Only when loc_rcvr_status has been indicated in at least 256 InfoFields shall infofield_complete be set TRUE. Any change in octets 7 to 10 shall result in infofield_complete being set to FALSE, and at least 256 InfoField transmissions shall occur with the new PMA_state value before infofield_complete is set TRUE.

Maintenance request 1421, continued

- Update Clause 97 PICS PMF12 to reflect changes
Feature: ~~unique~~ InfoField shall be transmitted at least 256 times with each change to PMA state
Value/Comment: ~~Transmitted~~ InfoField should[?] be transmitted at least 256 times with each change to octets 7 to 10 [Is this appropriate to include in Value/Comment?]
- Purpose of proposed changes is to address ambiguity in the assignment of values to state diagram variable infofield_complete
- PICS needed for new requirements for setting infofield_complete value?
- Proposed revision text is not definitive, may be incomplete, and contains a typo
- Return request to submitter to clarify proposed revision text and correct typo

Complete: N
In scope: Y
Errata: N

Maintenance request 1422

- In 97.4.2.4.10 ...

A SLAVE with the optional EEE capability enabled~~The SLAVE~~ shall align its transmit 81B-RS frame to within $+0/-1$ partial PHY frames of the MASTER as seen at the SLAVE MDI. The SLAVE InfoField partial PHY frame Count shall match the MASTER InfoField partial PHY frame Count for the aligned frame.

- Also update PICS items PMF29 and PMF30 to reflect that the requirements apply only if EEE is supported and enabled
- Set status to “Ready for ballot”

Complete: Y
In scope: Y
Errata: N

Maintenance request 1423

- Add the following sentence to 163.9.2.1
The connection from TP0v to the test equipment is AC-coupled.
- Add the following sentence to 163.9.2.2
The connection from the test equipment to TP5v is AC-coupled.
- Similar to statements made in similar subclauses (93.8.1.1 and 93.8.2.1 respectively)
- There is an exception for the measurement of DC common-mode voltage (see 93.8.1.3) where the test equipment makes high-impedance connection to the transmitter before the DC block
- Set status to “Ready for ballot”

Complete: Y In scope: Y Errata: N

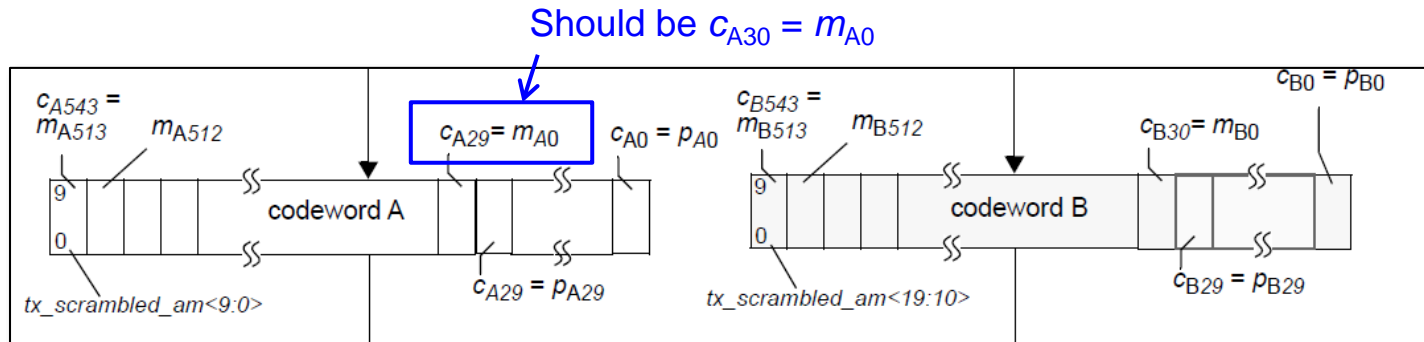
Maintenance request 1424

- In Table 120G-1, Table 120G-3, Table 120G-7, and 120G-9, ...
Differential termination mismatch [at 1 MHz](#) (max)
- Apply similar changes in annexes 83E and 120E
- Frequency at which differential termination mismatch is to be measured is not otherwise defined
- In Annexes 83A, 83B, and 86A the measurement frequency is defined to be 1 MHz
- Set status to “Ready for ballot”

Complete: Y In scope: Y Errata: N

Maintenance request 1425

- Typo in Figure 119–11...



- Set status to “Ready for ballot”

Complete: Y
In scope: Y
Errata: N

Future meetings

- Next meeting is expected to occur during the March 2024 IEEE 802 Plenary week
- Meeting details will be announced on the Task Force reflector

Adjourn