

IEEE 802.3 Maintenance Task Force

1 July 2026

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 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 of the Standards Committee or any of its subgroups, unless prohibited by the P & P of the Standards Committee or Working Group, is permitted to record the proceedings of an IEEE standards development meeting for which they are responsible by making an audio or slideshow recording or by producing a transcript using software or an artificial intelligence (AI) application approved by IEEE. **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. Software or AI shall not be used if it enables persons other than the officer making the recording or authorized Standards Department staff to initiate or obtain the transcription or recording.
 - See subclause 5.3.3.2 of the January 2026 IEEE-SA Standards Board Operations Manual
- If a member of the press (i.e., anyone reporting publicly on this meeting) attends a standards development meeting, they shall either inform the chair before the meeting or at the beginning of the meeting of their attendance. The chair shall then announce the presence of the press in attendance at the meeting.
 - See subclause 5.3.3.3 of the January 2026 IEEE-SA Standards Board Operations Manual

Teleconference decorum

- 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.
- **Please MUTE if you are not speaking.**
- Please use the chat function to request to be added to the discussion queue.
- Please wait to be recognized by the chair before speaking.

Agenda

- Review and approve agenda
- Approve meeting minutes
- Guidelines for IEEE-SA Meetings
- IEEE-SA Copyright policy
- Participation in IEEE 802 Meetings
- Attendance procedures
- Revision plan
- Consideration of maintenance requests
- Future meetings
- IEEE Std 802.3-2022/Cor 2 (IEEE 802.3dr)
 - Consider comments from initial SA ballot

Agenda motion

- Motion #1: Approve the agenda
 - M: D. Law S: G. Zimmerman
 - Passed by unanimous consent 10:10 am EDT 1 July 2026
- October 2025 minutes were posted on 2 October 2025
- November 2025 minutes were posted on 12 November 2025
- Motion #2: Approve the [October 2025](#) and [November 2025](#) minutes
 - M: D. Law S: L. Torres
 - Passed by unanimous consent 10:11 am EDT 1 July 2026

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 WORKING GROUP 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>

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
 - <https://standards.ieee.org/faqs/copyrights/>
- 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

- Meeting attendance will be determined using the Zoom meeting attendance record
- This meeting does qualify for attendance credit towards obtaining or maintaining voting membership

Revision plan

[Status update]

IEEE SA Standards Board Operations Manual 8.1.2

“Up to three amendments can be approved before the standard shall be revised, unless the base standard has been approved within the past three years. In such a case, multiple amendments may be added until the base standard is three years old. After the three-year period, RevCom shall defer consideration of additional amendments or corrigenda until a revision or a two-year extension request is approved by the IEEE SA Standards Board.

If, for any extenuating circumstances, an exception to these rules is required, the Standards Committee shall take its request for a two-year extension to RevCom. A project plan outlining the rationale for the request, as well as a schedule for the revision, also shall be submitted. RevCom will review the request and make a recommendation to the IEEE SA Standards Board.

During the two-year extension period, the Standards Committee can submit additional amendments and corrigenda for approval consideration. However, after this period, RevCom shall defer consideration of additional amendments or corrigenda until a revision is approved by the IEEE SA Standards Board.”

Status of IEEE Std 802.3

IEEE Std 802.3-2022

Published amendments/corrigendum

- IEEE Std 802.3dd-2022
- IEEE Std 802.3cs-2022
- IEEE Std 802.3db-2022
- IEEE Std 802.3ck-2022
- IEEE Std 802.3de-2022
- IEEE Std 802.3cx-2023
- IEEE Std 802.3cz-2023
- IEEE Std 802.3cy-2023
- IEEE Std 802.3df-2024
- IEEE Std 802.3da-2026
- IEEE Std 802.3dk-2026
- IEEE Std 802.3dg-2026
- IEEE Std 802.3-2022/Cor 1-2024

Active projects

- IEEE P802.3dj
- IEEE P802.3dm
- IEEE P802.3dp
- IEEE P802.3dq
- IEEE P802.3ds
- IEEE P802.3dt
- IEEE Std 802.3-2022/Cor 2

There are currently 90 maintenance requests marked “Ready for ballot”.

Consolidated timeline

Year	2026						2027												2028					
Month	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6
P802.3dj	<SAB		SASB																					
P802.3dm	<WGB				SAB					SASB														
P802.3dp																								
Cor 2	<SAB		SASB																					
P802.3dq											WGB									SAB				
P802.3ds					WGB								SAB							SASB				
P802.3dt																								
Revision plan A					WGB						SAB					SASB								



We are here



Revision must be approved before RevCom will consider any additional amendments

Revision status and next steps

Current status

- Roll-up draft includes amendments through IEEE Std 802.3df-2024
- Thanks to IEEE SA editorial staff and Pete Anslow for supporting the roll-up
- No editorial team

Next steps

- Incorporate the latest three amendments into the roll-up draft
- Recruit an editorial team
- Motion to incorporate maintenance requests “Ready for ballot” (circa September)
- Implement maintenance changes into the roll-up draft
- Estimate a reasonable ballot schedule
- Include incorporation of P802.3dj, Cor 2, and possibly P802.3dm into the schedule

Consideration of maintenance requests

Maintenance request status

- 3 new requests received since the October 2025 meeting
- 106 open maintenance requests
- Current status of open requests
 - Approved 0
 - Balloting 0
 - Ready for ballot 90
 - Awaiting clarification 2
 - Errata 0
 - To be categorized 14
- Also see http://www.ieee802.org/3/maint/requests/open_num.html

New maintenance requests

- Deadline for consideration at this meeting was 27 May 2026
- New maintenance requests

No.	Date	Standard	Reference	Subject
1497	09-Mar-26	802.3-2022	Various, see details	Update transition condition
1498	05-May-26	802.3-2022	Various, see details	Correct function name
1499	29-May-26	802.3-2022 802.3cy-2023	Various, see details	Remove unnecessary text

Consideration of maintenance requests, 1 of 5

No.	Date	Standard	Reference	Status update	Complete?	In scope?	Status
1421	11-Oct-23	802.3-2022	97.4.2.4	No update.	N		I
1429	2-Apr-24	802.3-2022	46.3.4.3	No update.	N		I
1433	14-May-24	802.3cx-2023	90.7.1	This maintenance request was withdrawn.	N		W

Consideration of maintenance requests, 2 of 5

No.	Date	Standard	Reference	Synopsis	Complete?	In scope?	Status
1448	4-Oct-24	802.3-2022	149.3.9	"OAM shall beis operational as long as both PHYs implement this mechanism and the link is up. It shall continues to be operational during Low Power Idle, albeit the information is transferred at a slower rate during the refresh cycle." Add PICS. The text is descriptive and not normative. The proposed requirement does not appear to be enforceable since 1) "implementation" is not an externally observable trait and 2) the term "operational" does not have a clear definition. For item 1) reference to advertisement of the capability using e.g., the "MultiGBASE-T1 OAM ability" may be more appropriate. For item 2) "operation" apparently means that OAM frames may be exchanged using the mechanism defined in this subclause although there does not appear to be any requirement to do so (except perhaps for EEE support) or how often OAM frames should be exchanged.	N		R
1450	4-Oct-24	802.3-2022	149.3.9.2.1	"The dummy OAM symbol is all 0's and its value shall beis ignored at the receiver." Clearly indicate that it is a normative behavior for the value of the dummy OAM symbol to be ignored and add a PICS.	Y		R

Consideration of maintenance requests, 3 of 5

No.	Date	Standard	Reference	Synopsis	Complete?	In scope?	Status
1451	4-Oct-24	802.3-2022	149.3.9.2.1	"Bit 0 of each OAM symbol shall be is the first bit transmitted in the 10-bit OAM field. Symbol 0 shall be is the first symbol transmitted in each OAM frame." Replace OAM2 with a new PICS that reflects these transmitter order requirements. However, the replacement would result in no PICS requirement covering that symbol<0> should be inserted in the first RS-FEC frame of an RS-FEC super-frame when L=2 or L=4. It seem that the new requirement should be a separate PICS item.	N		R
1456	4-Oct-24	802.3-2022	149.3.9.2.15	"If a PHY receives SNR<1:0> set to 01 by its link partner, then it shall not cannot enter into LPI in the egress direction." Also add PICS. However, the PCS 64B/65B Transmit state diagram, part b (see Figure 149–17) is defined such that the transmitter will not go into LPI mode if the link partner is sending SNR<1:0> = 01 . Therefore, it seems appropriate that this text simply be a statement of fact.	Y		R
1457	4-Oct-24	802.3-2022	97.3.8.2.14	"If a PHY receives SNR<1:0> set to 01 by its link partner, then it shall not cannot enter into LPI in the egress direction." However, the PCS Transmit state diagram (see Figure 97–14) is defined such that the transmitter will not go into LPI mode if the link partner is sending SNR<1:0> = 01. Therefore, it seems appropriate that this text simply be a statement of fact. The additional PICS for this behavior (97.11.8 OAM7) should be removed.	Y		R

Consideration of maintenance requests, 4 of 5

No.	Date	Standard	Reference	Synopsis	Complete?	In scope?	Status
1460	4-Oct-24	802.3-2022	Figure 149–24	Add action "rx_boundary <= FALSE" to state CHECK_READ. The purpose is to add clarity about when the variable is set to FALSE. However, the definition of rx_boundary in 149.3.9.4.3 seems clear that it is set to FALSE when the "receive stream is not at a boundary end". The definition indicates the variable is set to TRUE at the boundary end and is FALSE otherwise.	Y		R
1461	4-Oct-24	802.3-2022	Figure 149–25	Add action "tx_boundary <= FALSE" to state CHECK_ACK and TRANSMIT symbol states. The purpose is to add clarity about when the variable is set to FALSE. However, the definition of tx_boundary in 149.3.9.4.3 seems clear that it is set to FALSE when the "transmit stream is not at a boundary end". The definition indicates the variable is set to TRUE at the boundary end and is FALSE otherwise.	Y		R
1463	4-Oct-24	802.3-2022	149.3.9.4.5	Rewrite definition of function "rs" to clearly identify function inputs and outputs. There is no change to the operation of the function.	Y	Y	
1464	4-Oct-24	802.3-2022	149.3.9.4.5	Rewrite definition and usage of function "rs_correct" to clearly identify function inputs and outputs. There is no change to the operation of the function.	Y	Y	

Consideration of maintenance requests, 5 of 5

No.	Date	Standard	Reference	Synopsis	Complete?	In scope?	Status
1479	23-Jun-25	802.3-2022	97.1.2	Add text for accuracy. "To maintain a frame loss ratio (FLR) equivalent to a bit error ratio (BER) of less than or equal to 10^{-10} , ..."	Y	Y	R
1485	23-Jun-25	802.3-2022	149.1.3	Add text for accuracy. "To maintain a frame loss ratio (FLR) equivalent to a bit error ratio (BER) of less than or equal to 10^{-10} , ..."	Y	Y	R
1497	09-Mar-26	802.3-2022	Various, see details	In Figure 149-32, change the transition condition from TX_SWITCH to PCS_TEST to rem_countdown_done *loc_rcvr_status = OK ". Similarly in Figure 165-22.	Y	Y	B
1498	05-May-26	802.3-2022	Various, see details	In 55.3.6.2.4, change the definition of T_TYPE_NEXT to be "Prescient end of packet check function. It returns the FRAME_TYPE T_BLOCK_TYPE of the tx_raw vector...". Similarly in 113.3.6.2.4, 126.3.6.2.4, and 149.7.2.4. FRAME_TYPE is not defined and T_BLOCK_TYPE is what was intended.	Y	Y	B
1499	29-May-26	802.3-2022	Various, see details	Replaces maintenance requests #1479 and #1485. In 97.1.2, remove unnecessary and possible misleading text from 2nd paragraph. " To maintain a bit error ratio (BER) of less than or equal to 10^{-10}, the A 1000BASE-T1 PHY adds 396 bits of Reed-Solomon forward error correction (RS-FEC) parity to each group of 45 80B/81B blocks (containing 450 octets of GMII data)." Make similar changes in 149.1.3 and 165.1.3.	Y	Y	B

Future meetings

- An electronic meeting will also be scheduled to occur around the September 2026 IEEE 802.3 interim meeting series
- Meeting details will be announced on the Task Force reflector

IEEE Std 802.3-2022/Cor 2 (IEEE 802.3dr)

[SA ballot comments, motions]

Adjourn