

IEEE 802.3 Ethernet Working Group
DRAFT Liaison Communication

Source: IEEE 802.3 Working Group¹

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From: David Law Chair, IEEE 802.3 Ethernet Working Group
[REDACTED]

Subject: Extended Reach BASE-T and PoE Workshop, 2026

Approval **Agreed at IEEE 802.3 Interim meeting, Munich, Germany, 14 May 2026**

Dear Colleagues,

¹ This document solely represents the views of the IEEE 802.3 Working Group and does not necessarily represent a position of the IEEE, the IEEE Standards Association, or IEEE 802.

The IEEE 802.3 Ethernet Working Group would like to thank TIA TR42 for its open communications on new projects received through our liaison officer, Bob Voss. His presentations have generated discussions on issues related to extended reach operation, beyond the currently specified link segment parameters for BASE-T PHYs specified in IEEE Std 802.3-2022.

In discussion, we understand that TIA TR42.7 is interested in producing a Telecommunications Systems Bulletin (TSB) outlining conditions where IEEE 802.3 BASE-T Ethernet PHYs and Power-over-Ethernet solutions, might be deployed beyond the design specifications in IEEE Std 802.3-2022. We believe other organizations may also be interested in this concept.

IEEE 802.3 believes it would be beneficial for the industry to gather and have a discussion on this topic to understand the goals of this effort, the various conditions being addressed, and the potential augmentation of relevant standards. This would help IEEE 802.3 understand the possible influence on our current and future activities.

To facilitate the forum for this discussion, the IEEE 802.3 New Ethernet Applications (NEA) Industry Connections activity is planning a series of virtual workshops. The agenda for these workshops would include:

- Consideration of liaisons from SDO's and industry organizations that summarize the consensus positions of these organizations related to any of the topics noted above.
- Presentations from individuals related to any of topics noted above.

IEEE 802.3 would appreciate if TIA has developed consensus positions relevant to any of these topics to liaise an overview presentation on these positions to David Law [REDACTED] the IEEE 802.3 Ethernet Working Group Chair.

The series will be held virtually, with the initial workshop planned for the August 2026 time frame, with exact details to be announced. This series of workshops will be open to all, and no registration or registration fee will be required. Details will be announced soon.

Any individual wishing to make a presentation on any of these topics or who may have questions regarding this event should contact Jon Lewis [REDACTED] Chair of the IEEE 802.3 NEA activity.

Sincerely,
David Law
Chair, IEEE 802.3 Ethernet Working Group