

## NEW ETHERNET APPLICATIONS

TYPE: **INDIVIDUAL** REPORT DATE: 24 SEPTEMBER 2026

- ❑ Chair: Jon Lewis, Dell Technologies, **other Affiliation**
- ❑ Participants: : ~**120 (Optional list of names)**
- ❑ Procedures: IEEE 802 LMSC Operations Manual, IEEE 802 P&P, IEEE 802.3 Operations Manual
- ❑ Deliverables Listed in the Approved ICAID: **(This section will be prepopulated by the Industry Connections Administrator. DO NOT MODIFY)**

There will be multiple types of deliverables.

1. The first type of deliverable will be the records of the meetings, including minutes and supporting presentations.
2. The second type of output may be the creation of one or more consensus presentations that are used as the basis for one or more Call-for-Interests to study new areas.
3. A third possible type of deliverable may be the creation, as appropriate, of white papers documenting the findings of the IC activity.

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### □ Status of Deliverables:

- List the status and target completion date for each deliverable
- Provide % of completion per deliverable
- Provide a brief description of the % completed
- Provide links to documents referenced

1. The first type of deliverable will be the records of the meetings, including minutes and supporting presentations.

Records of all meetings (face-to-face and electronic) are available at

[https://www.ieee802.org/3/ad\\_hoc/ngrates/public/index.html](https://www.ieee802.org/3/ad_hoc/ngrates/public/index.html) and the records for the Ethernet for AI meetings are available at [https://www.ieee802.org/3/ad\\_hoc/E4AI/index.html](https://www.ieee802.org/3/ad_hoc/E4AI/index.html) - 100% Complete

1. The second type of output may be the creation of one or more consensus presentations that are used as the basis for one or more Call-for-Interests (CFI) to study new areas.

400 Gb/s/Lane Signaling CFI – 100% Complete and in Study Group

Fault Managed Power Ethernet Interoperability – 100% Complete and in Study Group

PLCA Multidrop Latency, Jitter, and Scalability Enhancements call for interest – 100% Complete

1. A third possible type of deliverable may be the creation, as appropriate, of white papers documenting the findings of the IC activity.

Ethernet for AI Assessment including discussion on the following topics: - 80% Complete Combined

Beyond 200 Gb/s signaling for Ethernet AI interconnect, 400 Gb/s per lane signaling (CPC and NPC channels)

PAM4 / PAMxM modulation options, 1.6T FR4 PAM4 transceiver feasibility

Fiber optics for AI data centers, Header compression for AI networking

Next-generation fiber optic cabling and connectors

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- ❑ **Additional Accomplishments:** **Provide links**
- ❑ The CFIs from the last report all have approved PARs and operation in Task Force phase: IEEE P802.3 dq, ds and dt.
- ❑ <https://www.ieee802.org/3/dq/index.html>
- ❑ <https://www.ieee802.org/3/ds/index.html>
- ❑ <https://www.ieee802.org/3/dt/index.html>
- ❑ **Future Meetings:** Schedule of upcoming meetings
- ❑ Meetings are scheduled as requested and meetings for all IEEE 802.3 are located on the call and meeting calendar: <https://ieee802.org/3/calendar.html>
- ❑ **Minutes:** Provide links where minutes are stored
- ❑ [https://www.ieee802.org/3/ad\\_hoc/ngrates/public/index.html](https://www.ieee802.org/3/ad_hoc/ngrates/public/index.html)
- ❑ [https://www.ieee802.org/3/ad\\_hoc/E4AI/index.html](https://www.ieee802.org/3/ad_hoc/E4AI/index.html)
- ❑ **Issues:** Any major issues to be addressed; Any areas where the IEEE-SA Industry Connections Committee (ICCom) might be able to help
- ❑ No major issues at this time. Currently IEEE 802.3 NEA work is focused on next generation Ethernet and consensus building is focusing on Ethernet for AI.