

IEEE 802.3 New Ethernet Applications (NEA) Ad Hoc Closing Report

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Bangkok, Thailand
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IEEE 802.3 NEA Ad hoc

- Ad hoc Organization

Jon Lewis, IEEE 802.3 NEA Ad Hoc Chair

John D'Ambrosia, IEEE 802.3 NEA Ad Hoc Vice-Chair

- Ad hoc Web and Reflector Information

Home Page - http://www.ieee802.org/3/ad_hoc/ngrates/index.html

Reflector Information – http://www.ieee802.org/3/ad_hoc/ngrates/reflector.html

Approved ICAID – http://www.ieee802.org/3/ad_hoc/ngrates/IC15-005-802d3_NEA_ICAID_approved_051218.pdf

NEA Ad hoc Calls - https://www.ieee802.org/3/ad_hoc/ngrates/public/calls/index.html

Meetings

9 Oct 2025 teleconference - https://www.ieee802.org/3/ad_hoc/ngrates/public/calls/25_1009/index.html

IEEE 802.3 NEA – 10BASE-T1S Differentiated Services

“Ethernet for AI” Assessment

An assessment of "Ethernet Interconnect for AI" with an emphasis on beyond 200 Gb/s signaling.

Activity Chair – John D’Ambrosia

Additional Support from Kent Lusted and Mark Nowell

Website - https://www.ieee802.org/3/ad_hoc/E4AI/index.html

Reflector - https://www.ieee802.org/3/ad_hoc/E4AI/reflector.html

This Week

- No meetings this week
- IEEE 802.3 NEA Meeting, 11 Dec 2025, 9am to 11am ET ($\approx$ 1st Hour)
 - The Requirement of Standardizing Local MAC Header for AI Cluster Network
 - Joint call with Nendica (See 802.3 Calendar - <https://www.ieee802.org/3/calendar.html>)
- IEEE 802.3 NEA “Ethernet for AI” Topic – “Fiber for AI”
 - Assigned Liaison - ITU-T SG15 Development of weakly-coupled multi-core fibre Recommendations liaison letter
 - Proposed Liaison to ITU-T / IEC – “Update – “802.3 Ethernet for AI” Assessment” with invitation to explore the future of fiber in enabling 400 Gb/s signaling and beyond.
 - Examples - multicore fiber (MCF), hollow-core fiber (HCF), high-density fiber interconnect, and next generation MMF
 - Topic for July 2025 Joint IEEE 802 / ITU-T workshop
- IEEE 802.3 NEA “Ethernet for AI”
 - Proposed liaison updating industry MSA’s on E4AI Status (March 2026 CFI Request)

WG Motion

Motion	Move that the IEEE 802.3 Working Group approve: • IEEE_802d3_to_ITU_IEC_e4ai_2511_draft_Redacted.pdf • with editorial license granted to the Chair (or his appointed agent) as liaison communications from the IEEE 802.3 Working Group to ITU and IEC
Technical (>= 75%)	
Moved by	John D'Ambrosia
Second by	Kent Lusted
Results 802.3 (y/n/a)	

Note – The IEEE P802.3dj Chair will use the WG approved document as a template for proposed liaisons forwarding future IEEE P802.3dj drafts that he will bring forward as an individual.

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Going Forward

NEA to address liaison

- Technical report of use cases and requirements beyond 10Gbps liaison letter

E4AI to address multiple liaisons

- ITU-T SG15 Development of weakly-coupled multi-core fibre Recommendations liaison letter
- ITU-T SG15 Approval of Technical Report on International Optical Networks towards 2030 (ION-2030) and Beyond liaison letter and attachment
- OIF Next Generation CEI-448G Framework document project liaison letter and attachment IEEE 802.3 New Ethernet Applications Ad Hoc Ethernet for AI Assessment

Questions?

Thank you!