IEEE 802.3

New Ethernet Applications (NEA) Ad Hoc
"Ethernet for AI" Assessment
Closing Report

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12 March 2026

Ethernet for AI" Assessment
An assessment of "Ethernet Interconnect for AI"

- Activity Chair – John D'Ambrosia
- Website - https://www.ieee802.org/3/ad_hoc/E4AI/index.html
- Reflector - https://www.ieee802.org/3/ad_hoc/E4AI/reflector.html
- Meetings - IEEE 802.3 NEA Ethernet for AI Assessment Public Area
  - IEEE 802.3 Jan 2026 Interim – Consensus Building 400Gb/s per lane CFI
  - 19 Feb 2026 - Consensus Building 400Gb/s per lane CFI / additional technical presentations
  - 24 Feb 2026 – "Fiber for AI" Workshop
- High Level Summary
- Support for 400 Gb/s Per Lane CFI
- Continued efforts exploring topics related to future Ethernet activity related to AI
- Future activities
  - "Header Compression" Workshop
    - 23 Apr 2026 Electronic Meting, 10am to 2pm ET
    - Responses from leadership @ UEC and OCP indicate participation
  - "2-row MPO MDIs" Workshop
    - Details to be announced

"Fiber for AI" Workshop

➢ URL - https://www.ieee802.org/3/ad_hoc/E4AI/public/26_0224/index.html

➢ IEEE 802.3 received liaison from ITU-T
  ➢ https://www.ieee802.org/3/minutes/nov25/incoming/ITU-T_SG_15_oLS58_Redacted.pdf

Working Group Motion:

Motion	Move that the IEEE 802.3 Working Group approve: ● IEEE_802d3_to_ITU_e4ai_2603_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
Technical (>= 75%)	
Moved by	John D'Ambrosia
Second by	Tom Hubert
Results 802.3 (y/n/a)	

OCP

- Engagement with OCP / OCP ESUN via IEEE 802.3 E4AI "Compression Header" Workshop liaison
- Interest expressed by OCP ESUN in IEEE 802.3 "Ethernet for AI" activities
- Tentative meeting with OCP ESUN scheduled for 09 Apr 2026. IEEE 802.3 delegation to provide overview of IEEE 802.3 E4AI Related activities
  - IEEE 802.3 "Ethernet for AI" Assessment
    - Workshop – "Fiber for AI" Overview"
    - Future Events
      - Workshop – "Header Compression"
      - Workshop – "2-row MPO MDIs"
    - Next Steps after 400Gb/s/lane CFI
  - IEEE P802.3dt Ethernet Meta Data Services Call-for-Interest (CFI) Overview
  - IEEE 802.3 400G/Lane Call-for-Interest (CFI) Overview
- Material to be shared:
  - https://www.ieee802.org/3/ad_hoc/E4AI/index.html
  - https://www.ieee802.org/3/ad_hoc/ngrates/public/calls/25_0722/CFI_EMS_R1_250722.pdf
  - https://www.ieee802.org/3/cfi/0326_1/CFI_01_0326.pdf

WG Motion

Motion	Move that the IEEE 802.3 Working Group approve the delegation of Kent Lusted, David Ofelt, and Mabud Choudhury, as IEEE 802.3 representatives from the IEEE 802.3 Working Group to to Open Compute Project / ESUN for the 09 April 2026 meeting (tentative) and any subsequent meetings related to current or emerging IEEE 802.3 efforts addressing Ethernet solutions for AI.
Technical (>= 75%)	
Moved by	John D'Ambrosia
Second by	Kent Lusted
Results 802.3 (y/n/a)	

Note – John D'Ambrosia is the IEEE 802.3 liaison officer to OCP Foundation