

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

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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

Meetings

19 Aug 2025 Electronic Meeting - https://www.ieee802.org/3/ad_hoc/E4AI/public/25_0819/index.html

4 presentations, including update on movement towards 2 CFIs

23 Oct 2025 Electronic Meeting - https://www.ieee802.org/3/ad_hoc/E4AI/public/25_1023/index.html

6 presentations, including 1) update on CFI for 400 Gb/s per lane Signaling Ethernet Project and 2)

High Level Summary

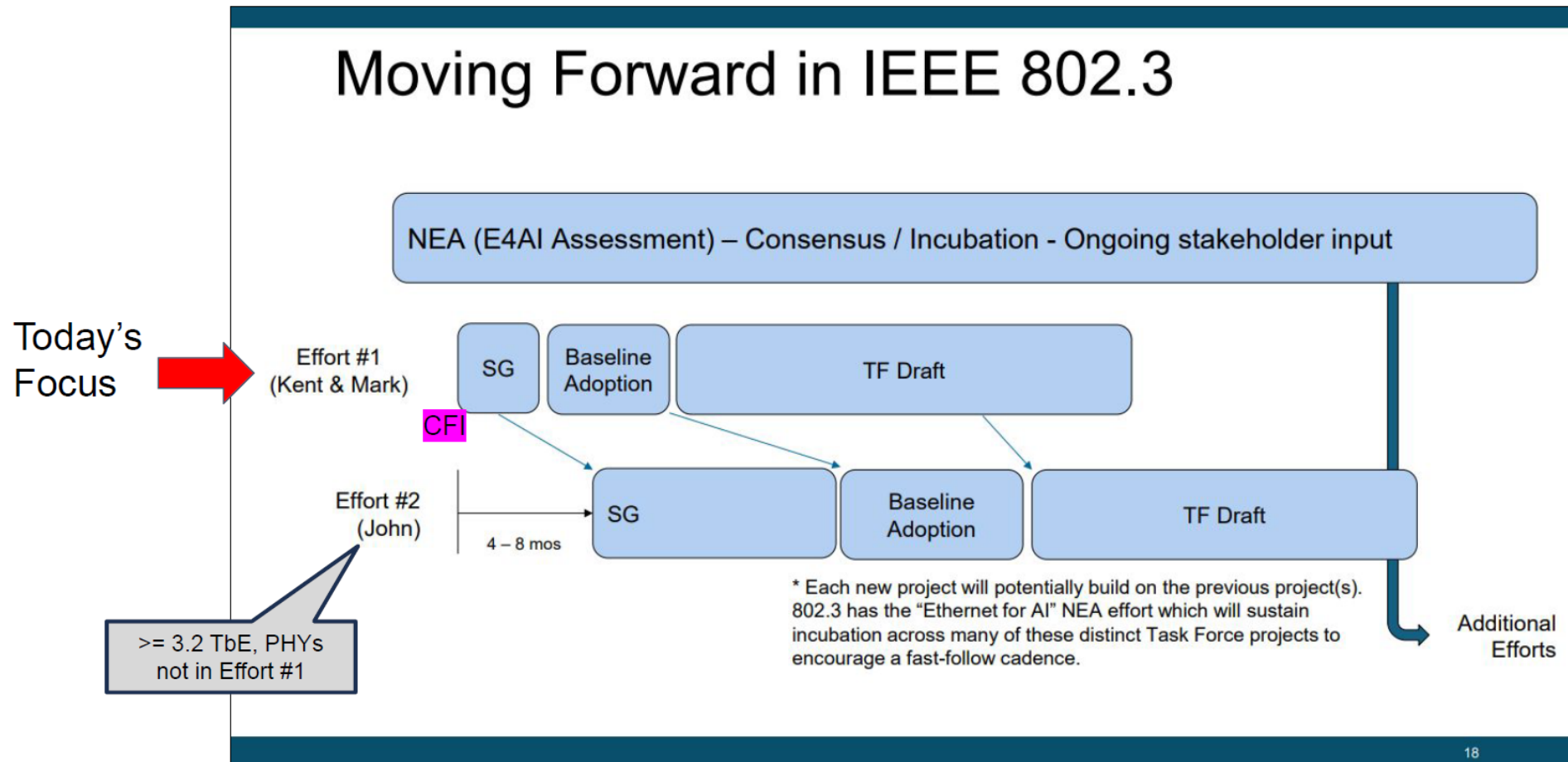
Ongoing electrical and optical simulations comparing PAM4 / 6 / 8

Distinctive but related efforts emerging – 400 Gb/s electrical and optical development for 1/2/4 lanes and ≥ 3.2 TbE

Kent Lusted has requested to use “E4AI” for consensus building on Mar 2026 CFI - 400 Gb/s per lane Signaling Ethernet Project

John D’Ambrosia to use “E4AI” for consensus building on future CFI (Jul/Nov 26) - ≥ 3.2 TbE (leveraging 400 Gb/s per lane Signaling Ethernet Project)

Two Efforts Forming In the Pipeline



https://www.ieee802.org/3/ad_hoc/E4AI/public/25_0819/dambrosia_e4ai_01_250819.pdf

This Week

- Not meeting this week.
- Future meetings will be announced on the reflector and meeting coordinates will be posted on the [IEEE 802.3 Call and Meeting Calendar](#)

Questions?

Thank you!