

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

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IEEE 802.3 NEA Ad hoc

- Ad hoc Organization

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

 - Jon Lewis, 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

- BWA, Part 2 Editorial Team

 - Tom Issenthuth, Chief Editor

 - Matt Brown, Assistant Editor

- BWA, Part 2 Web and Reflector Information

 - Home Page - http://www.ieee802.org/3/ad_hoc/bwa2/index.html

 - Reflector Information - http://www.ieee802.org/3/ad_hoc/bwa2/reflector.html

Activities Since July 2019 Plenary

- IEEE 802.3 Sept Interim http://www.ieee802.org/3/ad_hoc/ngrates/public/19_09/index.html
 - CFI Consensus – Lower Cost, Shorter reach, optical PHYs using 100 Gb/s Wavelengths, Robert Lingle
 - Ethernet BWA, Part II, Path Forward – John D’Ambrosia
- Teleconferences
 - Lower Cost, Shorter reach, optical PHYs using 100 Gb/s Wavelengths
 - 30 Jul 2019 - http://www.ieee802.org/3/ad_hoc/ngrates/public/calls/19_0730/index.html
 - 01 Oct 2019 - http://www.ieee802.org/3/ad_hoc/ngrates/public/calls/19_1001/index.html
 - Bandwidth Assessment http://www.ieee802.org/3/ad_hoc/bwa2/public/calls/index.html
 - 13 Aug 2019 – BWA Editors Call
 - 27 Aug 2019 – Review of Networks in PeeringDB, John D’Ambrosia
 - 27 Sept 2019 – Data Center Ethernet Switch and Server Bandwidth Assessment for IEEE, presentation provided by Dell’Oro Group
- IEEE 802.3 BWA, Part II, D1.0 Uploaded 03 Nov 2019
- Annual report given to ICCom at IEEE-SA Nov 2019 Standards Board Meeting (See next Slides)

IC15-005

New Ethernet Applications

Type: Individual Report Date: 14 Oct 2019

- **Co-Chairs:** Chair: John D'Ambrosia (FutureWei, U.S. Subsidiary of Huawei); Vice-Chair: Jon Lewis (Dell EMC)
- **Participants:** How many? (Optional list of names and affiliations)
 - >150 individuals during 2019
- **Procedures:**
 - IEEE 802 LMSC Operations Manual, IEEE 802 P&P, IEEE 802.3 Operations Manual
- **Deliverables listed in the Approved ICAID (Do not modify):**
 1. Meeting / Teleconference Records - http://www.ieee802.org/3/ad_hoc/ngrates/public/index.html
 1. 5 Face-to-Face Meetings
 2. 15 Teleconference Calls
 2. CFI Consensus Presentations / Study Group Formation – Total 4 + 1 (Nov 2019 Pending)
 1. 10G+ Automotive Ethernet Electrical PHYs (Mar 19)
 2. Automotive Optical Multi Gig (Jul 19)
 3. Improving PTP Timestamping Accuracy on Ethernet Interfaces (Jul 19)
 4. 10SPE Multidrop Enhancements (Jul 19)
 3. CFI Consensus Presentation
 1. Lower Cost, Shorter reach, optical PHYs using 100 Gb/s Wavelengths (Nov 19)
 4. Ethernet Bandwidth Assessment Report
 1. Information gathering completed – (Oct 19). White Paper “Assessment” generation underway, scheduled completion (Mar 20)

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New Ethernet Applications

- **Status of Deliverables** [Provide the status and target completion date for each deliverable listed in the ICAID (see previous bullet)]
 - Consensus Presentation: Lower Cost, Shorter reach, optical PHYs using 100 Gb/s Wavelengths. Target Nov 2019
 - Ethernet Bandwidth Assessment White Paper. Target Mar 2020
- **Additional Accomplishments:**
 - All Listed
- **Future Meetings:**
 - IEEE 802 Nov 2019, Mar 2020, Jul 2020, Nov 2020 Plenaries
 - IEEE 802.3 Jan 2020, May 2020, Sept 2020 Interim Meetings
 - Teleconference calls as needed
- **Issues:** Any major issues to be addressed; Any areas where the IEEE-SA Industry Connections Committee (ICCom) might be able to help
 - No issues noted.

Activities This Week

- Meeting –
 - Time: Mon 7pm – 9pm
 - Agenda
 - Bandwidth Assessment – Introduction / Review of Draft 1.0 – John D’Ambrosia / Tom Issenhuth
 - Beyond 400 GbE –
 - Industry Consensus Beyond 400 GbE, John D’Ambrosia
 - 200 Gb/s per Lambda Optical: Why, When, and How? – Ilya Lyubomirsky, Inphi

Questions?

Thank you!