

# IEEE 802.3 NG-ECDC Ethernet Ad Hoc Closing Report

John D'Ambrosia  
Futurewei, Subsidiary of Huawei  
San Antonio, TX, US  
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# IEEE 802.3 NG-ECDC Ad Hoc Information

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## Task Force Organization

John D'Ambrosia, IEEE 802.3 NG-ECDC Ad Hoc Acting  
Chair

## Task Force Web and Reflector Information

Home Page -

[http://www.ieee802.org/3/ad\\_hoc/ngrates/index.html](http://www.ieee802.org/3/ad_hoc/ngrates/index.html)

Reflector Information –

[http://www.ieee802.org/3/ad\\_hoc/ngrates/reflector.html](http://www.ieee802.org/3/ad_hoc/ngrates/reflector.html)

Approved ICAID –

[https://standards.ieee.org/about/sasb/iccom/IC15-005-01\\_NextGen\\_Enterprise\\_DataCenter\\_Campus\\_Ethernet.pdf](https://standards.ieee.org/about/sasb/iccom/IC15-005-01_NextGen_Enterprise_DataCenter_Campus_Ethernet.pdf)

# This Week

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- CFI – Next Generation Automotive
- Extended Reach Optics
  - 53 Attendees
  - Three Presentations
    - [Standardization path for 50G/200G/400G ER PMD requirements](#)  
– Yoshiaki Sone, NTT
    - [Update of Ethernet Bandwidth Forecast in 5G Application](#) -  
Xinyuan Wang, Huawei
    - [Extended Reach Optics Strawman \(CFI\)](#) – John D’Ambrosia,  
Futurewei
- Offline consensus building on proposed change to NG-ECDC scope change – to “New Ethernet Applications”

# Proposed ICAID Changes

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- Proposed ICAID Update (with supporters) - [http://www.ieee802.org/3/ad\\_hoc/ngrates/public/16\\_11/ICAID\\_16\\_0902\\_update\\_16\\_1110.pdf](http://www.ieee802.org/3/ad_hoc/ngrates/public/16_11/ICAID_16_0902_update_16_1110.pdf)
- Comparison Document ICAID Changes – <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0156-00-00EC-ieee-802-3-ng-ecdc-industry-connections-activity-modified-icaid.pdf>
- Name of Activity Renamed
  - Original – “Next Generation Enterprise / Campus / Data Center”
  - New – **New Ethernet Applications**

# ICAID: Motivation and Goal

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The growing diversity of applications **for Ethernet** requires new standards to be developed at a rapid pace. This is evident by recent standardization activities related to 2.5Gb/s, 5Gb/s and 25 Gb/s Ethernet, as well as subsequent conversations related on introducing new Ethernet solutions at these rates. Furthermore, with recent decisions in the IEEE P802.3bs 400GbE Task Force on 50Gb/s and 100Gb/s electrical and optical signaling, there is growing discussion of how to leverage these new signaling technologies for new Ethernet projects. **Additional examples include new projects targeting automotive and industrial applications, which are indicators of the growing expansion of Ethernet.**

The goal of this activity is to assess requirements for **new Ethernet-based applications**, identify gaps not currently addressed by IEEE 802.3 standards, and facilitate building industry consensus towards proposals to initiate new standards development efforts.

# ICAID: Stakeholder Communities

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Stakeholders identified to date includes but are not limited to: users and producers of systems and components for servers, network storage, networking systems, data centers, high performance computing, telecommunications carriers, **automotive, and industrial applications.**

# WG Motion

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Move:

- IEEE 802.3 WG endorse the ICAID modification ([http://www.ieee802.org/3/ad\\_hoc/ngrates/public/16\\_11/ICAID\\_16\\_0902\\_update\\_16\\_1110.pdf](http://www.ieee802.org/3/ad_hoc/ngrates/public/16_11/ICAID_16_0902_update_16_1110.pdf) )
- Submit to the IEEE 802 EC for endorsement

Moved – John D’Ambrosia

Second – Steve Carlson

>50%

Results -

# IEEE 802.3 NG-ECDC Ethernet Ad Hoc Future Meetings

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- Optical Reach PMD Session –  
Teleconference to be announced
- January Interim



Questions?

Thank you!