

# IEEE 802.3WG Closing Plenary Report

Update: Industry Connections  
Higher Speed Ethernet Consensus

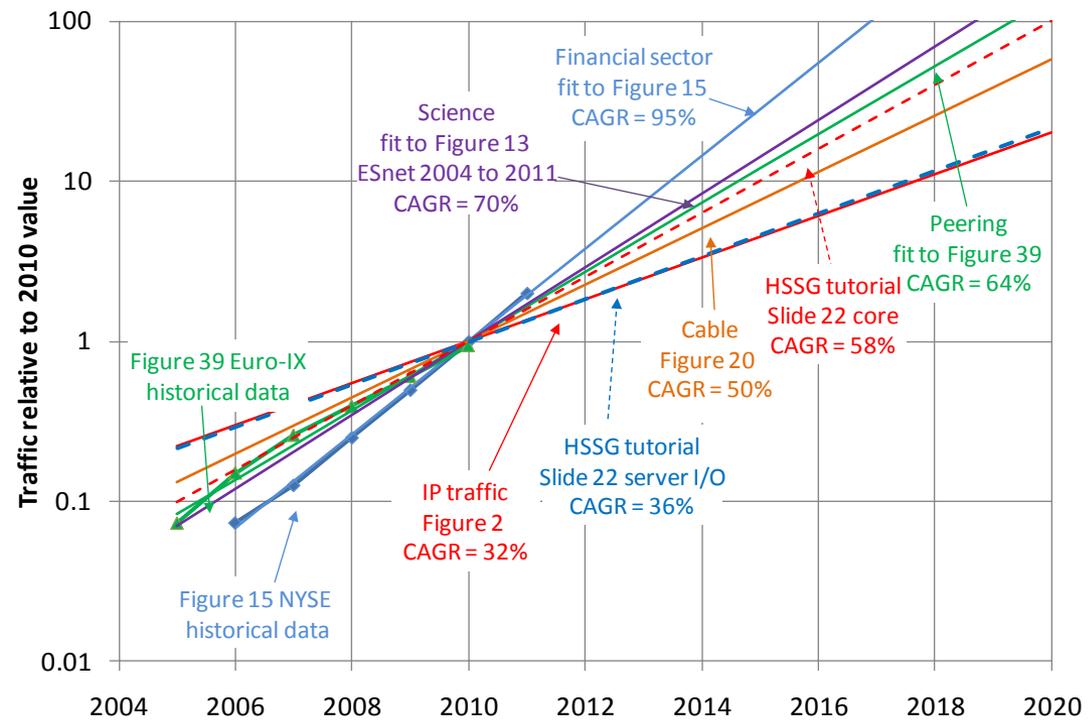
John D'Ambrosia

Dell

San Diego, CA, USA, July 2012

# IEEE 802.3 BWA Status Update

- Work has been completed.
- [http://www.ieee802.org/3/ad\\_hoc/bwa/public/jul12/1207\\_BWA\\_open\\_report.pdf](http://www.ieee802.org/3/ad_hoc/bwa/public/jul12/1207_BWA_open_report.pdf)
- Tutorial this week!
- Pending IEEE 802.3 WG approval this week!



Source: IEEE 802.3 BWA Tutorial -

[http://www.ieee802.org/802\\_tutorials/2012-07/BWATutorial\\_D1\\_12\\_0716.pdf](http://www.ieee802.org/802_tutorials/2012-07/BWATutorial_D1_12_0716.pdf)

- What's Next?

# “Higher Speed Ethernet Consensus” Program Submission

- HSE ICAID: <https://mentor.ieee.org/802-ec/dcn/12/ec-12-0033-01-00EC-higher-speed-ethernet-icaid.pdf>

- **Background and Purpose**

The completion of the IEEE 802.3 Industry Connections Ethernet Bandwidth Assessment Ad hoc has demonstrated that the bandwidth requirements of multiple application spaces are continuing an exponential climb with the forecasted growth in 2020 to reach a level 100x the bandwidth required in 2010. The purpose of the **IEEE 802.3** Industry Connection’s Higher Speed Ethernet Consensus activity will be to build consensus related to initiating a new effort targeting the next speed of Ethernet for wireline applications, which will be used for the evaluation and possible development of a Call-For-Interest for the next **IEEE 802.3** Higher Speed Study Group.

Related Standard – IEEE Std 802.3-2008 and IEEE Std 802.3ba-2010

Related Sponsor – IEEE 802

- **Charter and Scope**

- The scope of this IC activity will focus on building consensus related to the next speed of Ethernet for wireline applications, which will be used for the evaluation and possible development of **an IEEE 802.3** Call-For-Interest for the next Higher Speed Study Group. **The requested duration for this Industry Connections activity is 12 months.**

- **Proposed Deliverables**

- The proposed deliverables will be the historical records, i.e. meeting notes & presentations, of the meetings held by this Industry Connections activity.

# HSE ICAID Initial Members

- John D'Ambrosia, Dell
- Mark Nowell, Cisco
- David Ofelt, Juniper
- Pete Anslow, Ciena
- Steve Trowbridge, Alcatel-Lucent
- Ali Ghiasi, Broadcom
- Thananya Baldwin, Ixia
- Gerald Pepper, Ixia
- Mark Gustlin, Xilinx
- Kapil Shrikhande, Dell
- Chris Cole, Finisar
- Kai Cui, Huawei
- Scott Kipp, Brocade
- Jon Anderson, Opnext
- Mike Peng Li, Altera
- Andy Moorwood, Infinera
- Henk Steenman, AMS-IX
- Andy Bach, NYSE
- Arnold Nipper, DE-CIX
- Robert Lingle, OFS
- Yasuaki Kawatsu, Hitachi Cable
- Koichiro Seto, Hitachi Cable
- Hidehiro Toyoda, Hitachi
- Dave Chalupsky, Intel
- Michael Benett, LBNL-Energy Sciences Network
- Martin Carroll, Verizon
- Sam Sambasivan, AT&T
- Ralf-Peter Braun, Deutsche Telekom
- Huang Xi, Huawei
- Parantap Lahiri, Microsoft
- Louie Lee, Equinix
- Peter Stassar, Huawei
- Jeff Maki, Juniper
- Dirk Breuer, Deutsche Telekom
- Ryan Latchman, Mindspeed
- Sudeep Bhoja, Inphi
- Mike Dudek, Qlogic
- Hiroshi Hamano, Fujitsu Labs
- Nishihara Susumu, NTT
- Taichi Kogure, Opnext
- Rick Rabinovich, Alcatel-Lucent
- Beth Kochuparambil, Cisco
- Scott Sommers, Molex
- Tom Palkert, Xilinx, Molex, Luxtera
- Paul Kolesar, Commscope
- John Morris, Spirent
- Tom McDermott, Fujitsu
- Jim Keeley, LSI
- Ghani Abbas, Ericsson
- Jianyao Chen, Gigoptix
- Megha Shanbhag, TE Connectivity
- Nathan Tracy, TE Connectivity
- Francois Tremblay, Semtech
- Mabud Choudhury, Commscope
- Masashi Kono, Hitachi
- Velu Pillai, Broadcom
- Vasu Parthasarathy, Broadcom
- Hugh Barrass, Cisco
- Marc Dupuis, TE / Madison
- Eric Hall, Aurrion
- Daniel Sparacin, Aurrion
- Gary Nicholl, Cisco
- Katsuhisa Tawa, Sumitomo
- Greg McSorley, Amphenol
- Wheling Cheng, Juniper
- John Petrilla, Avago
- Dan Dove, Applied Micro
- Joel Goergen, Cisco
- Frank Change, Vitesse
- Jack Jewell, Commscope
- John McDonough, NEC
- Norman Swenson, Clariphy
- Rick Rabinovich, Alcatel-Lucent

# This Week

- Initial meeting
- Approximately 60 individuals
- 12 new initial members to be listed on ICAID (Total up to 73)
- 3 presentations
  - “Thoughts on Higher Speed” – John D’Ambrosia, Dell
  - “HSE”, David Ofelt, Juniper
  - “Near Term 400Gb/s Ethernet Project Characteristics” – Chris Cole, Finisar
- Straw Poll: A CFI in \_\_\_\_\_ would be appropriate
  - Nov 12: 15
  - Mar 13: 23
  - July 13: 8
  - Later than July 13: 2
  - Undecided - 6
- Agreement that work on developing content is needed

# WG Motion

- Move that
  - IEEE 802.3 working group endorses the Higher Speed Ethernet Consensus ICAID (ec-12-0033-01-00ec.pdf)
  - the IEEE 802.3 Chair requests that IEEE 802 EC endorse the Higher Speed Ethernet Consensus ICAID (ec-12-0033-01-00ec.pdf)
- Moved by John D'Ambrosia
- Second by Pete Anslow
- Majority
- Results 77 / 0 / 3
- Motion passes

# WG Motion – ITU Liaison

- Move that IEEE 802.3 approve the text in liaison\_itu\_0712.pdf, with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 working group to ITU-T Study Group 15. This liaison communication will be sent after the completion of the IEEE-SA Standards Board HSE Industry Connections ballot with adjustments made by the Chair (or his appointed agent) as necessary based on the IEEE-SA Standards Board ballot results.
- Moved by John D'Ambrosia
- Second by Pete Anslow
- Technical ( $\geq 75\%$ )
- Results 69 / 0 / 3
- Motion passes

# WG Motion – OIF Liaison

- Move that IEEE 802.3 approve the text in liaison\_oif\_0712.pdf, with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 working group to OIF. This liaison communication will be sent after the completion of the IEEE-SA Standards Board HSE Industry Connections ballot with adjustments made by the Chair (or his appointed agent) as necessary based on the IEEE-SA Standards Board ballot results.
- Moved by John D'Ambrosia
- Second by Steve Trowbridge
- Technical ( $\geq 75\%$ )
- Results passed by voice without opposition
- Motion passes/fails

# Thank You!