IEEE 802.3WG
Opening Plenary Report

IEEE 802.3

Ethernet Bandwidth Assessment

Ad Hoc

John D'Ambrosia

Dell

Atlanta, GA, USA, Nov 2011

Reflector and Web

- To subscribe to the BWA reflector, send an email to:
  - *ListServ@ieee.org*

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"Ethernet Bandwidth Assessment" Program Submission

- ## Background and Purpose

    During the IEEE P802.3ba 40Gb/s and 100Gb/s Ethernet project, it was observed that core networking and computing applications were growing at different rates, driving the need to develop the two new wireline Ethernet speeds. The focus of this IC activity will be to perform an appraisal of future "Ethernet Wireline Bandwidth Needs" of applications within the Ethernet eco-system.

    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 will focus on gathering information that will enable an evaluation of the bandwidth needs for Ethernet wireline applications, including, but not limited to, core networking and computing. This evaluation will then enable the generation of a white paper(s) and related presentations on the future bandwidth needs of Ethernet wireline applications, which can then be used for future reference by an appropriate related standards activity.

- ## Proposed Deliverables

    This evaluation will then enable the generation of a white paper(s) and related presentations on the future bandwidth needs of Ethernet wireline applications, which can then be used for future reference by an appropriate related standards activity.

Activities Prior to Nov 2011 Plenary

- Conference Call, 9/8
  - Thanks to Hugh Barrass/ Cisco for hosting teleconference
  - "Bandwidth Trends on the Internet… A Cable Data Vendor's Perspective," Tom Cloonan, CTO, Arris

- Sept Interim Meeting
  - Thanks to Steve Carlson / High Speed Design for hosting meeting
  - Presentations
    - "Cisco Visual Networking Index (VNI) Global IP Traffic Forecast Update; 2010-2015," Mark Nowell, Cisco
    - ""Storage Growth and Ethernet," Scott Kipp, Brocade

Goals for the Week

- Hear Presentations:
  - "Bandwidth needs in HPC taking into account link redundancy," Petar Pepeljugoski, IBM
  - "Bandwidth Needs in Core and Aggregation nodes in the Optical Transport Network," Huang Xi, Huawei

Future Presentations

- ## Teleconference -

  - Nov 17, Noon Eastern, The Transformers (Comcast, Facebook, Google)

  - Nov 22, 11am Eastern, Euro-IX

  - Dec 13, 11am Eastern, ESnet

Schedule

- Obtain Data   Now thru Nov '11, Plenary
- Create D1.0   Prior to Jan '12 Interim
- Review Ad hoc comments   @ Jan '12 Interim
- Update D1.0 & review   Feb '12 phone conference
- Submit D2.0 to WG   Prior to Mar '12 Plenary
- WG Approval ?   @ Mar '12 Plenary
- WG Comment Review?
- Submit D2.x for WG approval   @ Jul '12 Plenary

Thank You!