

IEEE 802.3WG Opening Plenary Report

IEEE 802.3
Ethernet Bandwidth Assessment
Ad Hoc

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San Francisco, CA, USA, July 2011

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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 July 2011 Plenary

- Conference Call, 4/14
 - Thanks to John D'Ambrosia / Force10 for hosting teleconference
 - Generated general public request for bandwidth data
 - Proposed 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
- May Interim Meeting
 - Thanks to John McDonough / NEC for hosting meeting
 - Presentation – Scott Kipp – “Data Center Bandwidth Scenarios”

Activities Prior to July 2011 Plenary

- Conference Call, 6/ 29
 - Thanks to Hugh Barrass/ Cisco for hosting teleconference
 - Presentation – Andy Bach, NYSE Euronext, "Bandwidth Demand in the Financial Industry- The Growth Continues"
 - Presentation – John Mudrick, Dow Jones, rescheduled for 9/8
- On-going evangelism
- Commitments to provide additional data
 - Members of Euro-IX Community: Henk Steenman, AMS-IX, Arnold Nipper of DE-CIX , Stefan Wahl of ECIX, Serge Radovic of Euro-IX, Katsuyasu Toyama of JPNAP, John Souter of LINX, Alexander Ilin of MSK-IX, and Kurtis Lindqvist of Netnod.
 - Mark Nowell, Cisco
 - Doug Jones, Comcast

Goals for the Week

- Hear Presentation: Kimball Brown, LightCounting
 - “Server Bandwidth Scenarios – Signposts for 40G/100G Server Connections”

Thank You!