

Next-Generation BASE-T Study Group Opening Report

IEEE 802.3 Ethernet Working Group

Bill Woodruff, Broadcom, Chair
David Chalupsky, Intel, Vice Chair

San Antonio, November 12, 2012

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First NGBT SG Meeting – Sept'12

- Met in Geneva Monday and Tuesday, Sept 24-25, 2012
- 47 attendees
- Mr. Law appointed Bill Woodruff as SG Chair; confirmed by SG. Mr. Law appointed David Chalupsky as Acting Chair for the Interim
- Tutorial presentations on Study Group process and project documentation
- Fifteen presentations on technical and economic feasibility
- Adopted text of PAR
- Adopted nine objectives

Objectives (approved by SG on 25-Sept-12)

- Support full duplex operation only
- Preserve the 802.3 / Ethernet frame format utilizing the 802.3 MAC
- Preserve minimum and maximum Frame Size of current 802.3 standard
- Support a BER better than or equal to 10^{-12} at the MAC/PLS service interface
- Support Auto-Negotiation (Clause 28)
- Support optional Energy Efficient Ethernet
- Support local area networks using point-to-point links over structured cabling topologies, including directly connected link segments
- Do not preclude meeting FCC and CISPR EMC requirements
- Support a data rate of 40 Gb/s at the MAC/PLS Service Interface

Plan and Goals for the Week

- Meet Tuesday, Wednesday, and Thursday am.
 - May complete Wednesday evening
- Additional presentations working toward objectives
 - Reach in particular!
 - Cabling standards updates, channel parameters, link length distributions, topology needs for data center servers, EEE
 - Power vs. reach a hot topic
- Develop responses to two liaison letters for consideration at the closing
- Request SG extension
- Plan for next meeting

Thank You!