



IEEE P802.3an (10GBASE-T)

Task Force

Opening Plenary Meeting Report

Portland, OR

July 12, 2004

Brad Booth, Chair
bbooth@ieee.org

Reflector and Web

- To subscribe to any of the 10GBASE-T reflectors send an email to:

listserv@ieee.org

with the following in the body of the message:

subscribe stds-802-3-10GBT <your name>

subscribe stds-802-3-10GBT-Modeling <your name>

subscribe stds-802-3-10GBT-Cabling <your name>

for example:

subscribe stds-802-3-10GBT Brad Booth

Uses the email address from the header information!!

- P802.3an Task Force web page URL:

<http://www.ieee802.org/3/an/>

P802.3an Documents

- **PAR**

- http://www.ieee802.org/3/10GBT/public/nov03/par_2_1103.pdf

- **5 Criteria**

- http://www.ieee802.org/3/10GBT/public/nov03/5Criteria_2_1103.pdf

- **Objectives**

- http://www.ieee802.org/3/10GBT/public/sep03/objectives_1_0903.pdf

Objectives

- **Preserve the 802.3/Ethernet frame format at the MAC Client service interface**
- **Preserve min. and max. frame size of current 802.3 Std.**
- **Support full duplex operation only**
- **Support star-wired local area networks using point-to-point links and structured cabling topologies**
- **Support a speed of 10.000 Gb/s at the MAC/PLS service interface**
- **Select copper media from ISO/IEC 11801:2002, with any appropriate augmentation to be developed through work of 802.3 in conjunction with SC25/WG3**
- **Support Clause 28 auto-negotiation**
- **Support coexistence with 802.3af**
- **To not support 802.3ah (EFM) OAM unidirectional operation**
- **Meet CISPR/FCC Class A**

Objectives

- Support operation over 4-connector structured 4-pair, twisted-pair copper cabling for all supported distances and Classes
- Define a single 10 Gb/s PHY that would support links of:
 - At least 100 m on four-pair Class F balanced copper cabling
 - At least 55 m to 100 m on four-pair Class E balanced copper cabling
- Support a BER of 10^{-12} on all supported distances and Classes



Interim Meeting

- **May 25, 2004**
- **Long Beach, CA**
- **Hosted by Cat 6 Consortium**
- **~80 attendees**
- **~20 presentations**
 - **Coding and pre-coding**
 - **Magnetics**
 - **Link segment specifications**
- **Agreed to limit PAM proposals to ≥ 8 levels**
- **Adopted baseline MDI return loss text**
- **No agreement on pre-coding, PMA Vp-p, cabling frequency range**

Plans for the Week

- **To select proposals as the baseline for the creation of draft D1.0**
- **~15 presentations scheduled**
 - Coding proposals
 - Link segment proposals
 - Alien crosstalk
 - PMA electrical
- **Liaison letters**
 - TIA liaison
 - ISO/IEC liaison



Thank You!

