IEEE P802.3ap Task Force
Opening Plenary Meeting Report

Portland, OR

July 12, 2004

The Backplane Ethernet Study Group became the IEEE P802.3ap Task Force on May 13, 2004.

Thanks to all who help make this happen…

Task Force Organization

- ## Task Force Chair
  - Adam Healey (ahealey@agere.com)

- ## Task Force Secretary
  - John D'Ambrosia (john.dambrosia@tycoelectronics.com)

- ## Chief Editor
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- ## Channel Model Ad Hoc Chair
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Reflector and Web

- To subscribe to the IEEE P802.3ap Backplane Ethernet Task Force reflector send an email to:

    listserv@ieee.org

    with the following in the <u>body of the message</u>:

    subscribe stds-802-3-blade <yourfirstname> <yourlastname>

    For complete instructions on reflector usage, subscription, and unsubscription:

    http://ieee802.org/3/ap/reflector.html

- IEEE P802.3ap Task Force web page:

    http://www.ieee802.org/3/ap/

- Channel Model Ad Hoc web page:

    http://www.ieee802.org/3/ap/public/channel_adhoc

IEEE P802.3ap Task Force Documents

- Approved PAR

  http://standards.ieee.org/board/nes/projects/802-3ap.pdf

- 5 Criteria

  http://ieee802.org/3/ap/802_3_ap_5criteria.pdf

- Objectives

  http://ieee802.org/3/ap/802_3_ap_objectives.pdf

IEEE P802.3ap 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 existing media independent interfaces.**

- **Support operation over a single lane across 2 connectors over copper traces on improved FR-4 for links consistent with lengths up to at least 1m.**

  - **Define a 1 Gb/s PHY**
  - **Define a 10 Gb/s PHY**

- **Consider auto-negotiation.**

- **Support BER of 10^-12 or better.**

- **Meet CISPR/FCC Class A.**

Interim Meeting

- May 24 & 25, 2004
- Long Beach, CA

- 16 technical presentations
  - System Requirements
  - Backplane Channel Model
  - Auto-Negotiation
  - 1 and 10Gb/s serial PHY

- Identified points of agreement on backplane channel and auto-negotiation.

Important Result

- New objective…

- Motion: Move to augment the existing 802.3ap objectives to include defining a 4-lane 10Gb/s PHY for operation over the 802.3ap channel model. Add the following bullet to the objectives:
    - Define a 4-lane 10Gb/s PHY for operation over the 802.3ap channel model.

- Technical (75%)
- Moved – Jeff Lynch
- Seconded – David Koenen
- All (Y/N/A): 32/10/3
- 802.3 (Y/N/A): 11/1/1
- MOTION PASSES

Plan for the Week

- Hear presentations
    - 27 technical presentations
    - Topics:
        - Backplane Channel Model
        - Auto-Negotiation
        - Test Methodology
        - 10Gb/s serial PHY

- Build confidence in proposed channel limits (and identify areas where corrections are required).

- Identify candidate architectures for 10Gb/s Serial PHY and Auto-Negotiation.

Thank You!