

Unapproved Minutes
IEEE P802.3AP - Backplane Ethernet
June 21 - 23, 2005
Minneapolis, MN

Prepared by
John D'Ambrosia

Meeting convened at 9:41 am, June 21, 2005

Agenda / Housekeeping Issues

- Introductions
- Agenda (agenda_01_0605)
 - Approved by voice vote without objection
 - Moved by Fulvio Spagna
 - Seconded by Charles Moore
 - Agenda approved by voice vote without objection
- Review of Minutes from May meeting
 - Header Information (Date / location) need corrected
 - Motion to approve minutes from March meeting
 - Moved by Schelto Van Doorn
 - Seconded by Justin Gaither
 - Minutes were Approved by voice vote without objection
- Goals for meeting discussed
 - Development of Draft 1.0
 - Resolve comments against Draft 0.91
 - Presentations
 - Formalize points of agreement with motions
- IEEE rules read to the body by Chair
- IEEE Patent policy read to the body by Chair
- Inappropriate Topics for IEEE meetings read to the body by Chair
- IEEE Project Flow Discussed
- Project Details
 - 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
 - Discussion of going to working group ballot.
 - Review of Task Force Objectives
- Project schedule discussed
 - See agenda_1_0605 for Project Timeline
- Chair requested
 - All questions on presentation be held to end
 - All questions relevant to content and clarification of content

Presentation #1

Title – Editor's Report
By – Schelto van Doorn
See – vandoorn_01_0605.pdf

Presentation #2

Title – Channel Model Ad Hoc Report
By – Charles Moore
See - moore_01_0605.pdf

Presentation #3

Title – Concerns Regarding the Stability and Consistency of Channel Analysis Methods
By – Goergen Oganessyan
See - Oganessyan_01_0605.pdf

Discussion

- Voltage output relations to channels that appear similar are being observed.
- Consistency and relation to stub / return loss noted.

Break 10:05am

Reconvene at 10:22am

Presentation #4

Title – Improved ATCA Channel Measurement Data
By – Bill Peters
See - peters_01_0605.pdf

Discussion

- New channel data to be submitted
- Request for channel data web page to be updated to remove ambiguity of what is current data.
- Request for channel data to be grouped (Thru / NEXT / FEXT) when channel data is submitted.

Presentation #5

Title – ATCA Channel Crosstalk Worst Cases Analysis on Equalization Performance
By – Xiao Ming Gao
See - gao_01_0605.pdf

Presentation #6

Title – Informative IL Data and Spec Value / Test Recommendations
By – Rich Mellitz
See – Mellitz_01_0605.pdf

Discussion

- Philosophical question over proposed “Green-Gray” approach

Presentation #7

Title – Update to dambrosia_c1_0605 –
The Informative Model and Interesting Test Cases
By – John D’Ambrosia
See – dambrosia_01_0605.pdf

Break for lunch – 12pm

Reconvened at 1:30pm

Presentation #8

Title – Comparing Predictions From Informative Models Against Simulation Results
By – John D’Ambrosia
See – dambrosia_02_0605.pdf

Discussion

- Concern over use of Signaling Ad Hoc Results
 - Missing items
 - Too worst case?
- The presentation implies correlation to the simulations only.

Presentation #9

Title – Tx and Rx Return Loss Proposal
By – Shannon Sawyer
See – sawyer_01_0605.pdf

Presentation #10

Title – BGA Package Analysis
By – Mike Oltmanns
See – oltmanns_01_0605.pdf

Presentation #11

Title – Proposed Receiver Specifications
By – Stephen Anderson
See – anderson_01_0605.pdf

Discussion

- Use of 4 taps for Tx versus multiple taps that were discussed in May meeting. May be too harsh on receiver.

Presentation #12

Title – Rx Interference Tolerance Results
By – Shannon Sawyer
See – sawyer_02_0605.pdf

Break at 3:25pm

Meeting Reconvene at 3:40pm

Presentation #13

Title – Bounds on Interference Tolerance Spec.
By – Charles Moore
See – moore_02_0605.pdf

Discussion

- Interference numbers based on ICR.
- Concern expressed over proposed interference numbers. Some feel too high.
- Will existing parts meet these proposed numbers.

Presentation #14

Title – Options for Controlling DFE Error Propagation
By – Andre Szczepanek
See – szczepanek_01_0605.pdf

Discussion

- Use IPG for CRC8. There may be some issues there, as people use it now for other things.
- Concern over creating shim layers or modifying the PCS. Modifying the PCS would not be in conflict with the project objectives.

Presentation #15

Title – Coefficient Update SM
By – Andre Szczepanek
See – szczepanek_02_0605.pdf

Presentation #16

Title – Transmitter Tap Range Selection
By – Brian Brunn
See - brunn_01_0605.pdf

Discussion

- Concern over short / long channels next to each other and running at max power would exasperate xtalk
- Long / short channels near each other is a fact of life, not just a choice of design practice.

Comments Resolution began at 5:15pm
Meeting adjourned at 5:49pm

Meeting reconvened at 8:30am, June 22.

Comment resolution

Break at 10am
Reconvened at 10:20am

Lunch at noon
Reconvened at 1pm

Break at 3pm
Reconvened at 3:20pm

Meeting adjourned at 6:15pm

Meeting convened at 8:10am June 23.
Comment resolution continued

Draft verbiage for response to Interference tolerance testing (moore_03_0605) - Annex 69.A,

Draft verbiage for informative channel model characteristics presented (mellitz_02_0605).

Draft verbiage for coefficient update state machine presented (szczepanek_03_0605)

Supporting material for auto-negotiation related comments (ganga_01_0605)

Break at 10:05am
Meeting reconvened at 10:25am

Draft verbiage for transmitter output waveform testing presented (brink_01_0605)

Comment resolution ended.

No channel ad hoc conference calls between now and July Plenary.

Review of process from this point given.

Motion #1 General Session Motion

Description:

- **Accept proposed comment resolutions (with editorial comments to be resolved by the editor) and instruct the editor to generate Draft 1.0**
- **Grant editor license to make necessary editorial changes not addressed by editorial comments.**
- **Pre-submit Draft 1.0 to IEEE 802.3 in anticipation of requesting WG ballot at the July Plenary.**

Motion Type: Technical 75 % required

Moved By: John D'Ambrosia

Seconded By Rich Mellitz

Results: All Yes – 24 No – 0 Abstain – 0

P/F **Motion Passes**

Chair acknowledged the Xilinx sponsorship of the interim.

Next meeting – July 2005 Plenary

Week of July 17th

Location: Hyatt Regency, San Francisco

No new business.

Motion to adjourn approved by voice vote (Moved by John D'Ambrosia, Seconded by Rob brink) without objection

Meeting adjourned at 11:43am