

Unapproved Minutes  
IEEE P802.3AP - Backplane Ethernet  
July 19 - 21, 2005  
San Francisco, CA

Prepared by  
John D'Ambrosia

Meeting convened at 8:34 am, July 19, 2005

Agenda / Housekeeping Issues

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- Introductions
- Agenda (agenda\_01\_0705)
  - Approved by voice vote without objection
    - Moved by Schelto van Doorn
    - Seconded by Tom Palkert
    - Agenda approved by voice vote without objection
- Review of Minutes from June meeting
  - Motion to approve minutes from June meeting
    - Moved by Fulvio Spagna
    - Seconded by Bill Peters
    - Minutes were Approved by voice vote without objection
- Goals for meeting
  - Prepare Draft 1.0 for Working Group Ballot
- 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](http://ieee802.org/3/ap/802_3_ap_5criteria.pdf)
  - Objectives - [http://ieee802.org/3/ap/802\\_3\\_ap\\_objectives.pdf](http://ieee802.org/3/ap/802_3_ap_objectives.pdf)
- Project schedule discussed
  - See agenda\_1\_0705 for Project Timeline
- Discussion regarding the working group ballot process.

## Presentation #1

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Title – Editor's Report  
By – Schelto van Doorn  
See – vandoorn\_01\_0705.pdf

## Presentation #2

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Title – OIF Liason Report  
By – Tom Palkert  
See - palkert\_01\_0705.pdf

### Discussion

- Could StatEye support 8B/10B
- Could StatEye support single aggressor rx tolerance test

## Presentation #3

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Title – Enhancements to Initialization Procedure  
By – Joe Abler  
See - abler\_01\_0705.pdf

### Discussion

- Timing recovery robustness was discussed.
  - Initial proposal borrowed from CEI
  - DME should be a good pattern for locking clock recovery to.
- Training patterns other than PRBS7 were discussed, such as PRBS23.
- DC Bias and truncation could be a reason to keep cycling

Meeting Break at 9:52am

Meeting Reconvened at 10:24am

Comment Resolution

### **Straw Poll #1 – See Comment #14**

For bits 13:6

1 – all reserved	(0)
2 – all vendor specific	(0)
3 – 4 reserved / 4 vendor specific	(all)

### **Straw Poll #2 – See Comment #42**

Chicago Rules

#1 Keep Loopback mode mandatory

#2 Make Loopback for 10GBASE-KR optional

#3 Make Loopback mode for all port types optional

#1 - 20

#2 – 7

#3 - 11

Meeting broke for lunch at noon.  
Meeting reconvened at 1:35pm

Comment Resolution continued.

Meeting Break at 2:43pm  
Meeting reconvened at 3:27pm

Comment Resolution continued

### **Straw Poll #3 – See Comment #47**

In Table 73-1

#1 – Tx voltage max = Rx voltage max = 1600 mVpp

#2 – Tx voltage max = Rx voltage max = 1200 mVpp

Only applies to transmission and reception of DME pages, and is measured at TP1 and TP4, respectively.

#1 – 4

#2 – 8

Meeting break for day 4:10pm

Meeting reconvened at 9:40am  
Technical Issues with projector  
Meeting Break at 9:50am  
Comment Resolution Continued

Break for lunch at 11:30am

Meeting reconvened at 1:35pm

### **Presentation #4**

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Title – Measured Dispersion Compensation Performance on Intel Backplane Channels

By – Matt Brown

See - brown\_01\_0705.pdf

#### *Discussion*

- Didn't include device jitter
- Amount of DFE taps used similar to what has been used in simulations
- Pulse response measurements did not de-embed cabling.
- Tx jitter – wasn't measured
- Does not include xtalk. Results won't be same as without xtalk, expect some eye closure, but anticipate things should be ok.

## Presentation #5

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Title – StatEye Analyses and Comparisons  
By – Stephen Anderson  
See - anderson\_01\_0705.pdf

### *Discussion*

- Assumptions of Tyco Channels and use of dominant crosstalk aggressors brought up. Reference to data from other channels showed a clear difference between the value of those aggressors that were directly adjacent to the victim pair, as compared to the value of those aggressors that were not directly adjacent to the victim pair.

## Presentation #6

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Title – Update on CRC8  
By – Andre Szczepanek  
See - szczepanek\_01\_0705.pdf

### *Discussion*

- How do we use this presentation – modify Clause 49 for Backplane Ethernet or create new like PCS for Backplane Ethernet.
- Get people thinking about the subject, and author will put a comment in against this subject.
- Suspect that this might show up in LRM as well. So maybe put in Clause 49 so it can be leveraged off of by other groups.

## Presentation #7

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Title – FR408 Backplane Enhanced 1m Channels  
By – Gourgen Oganessyan  
See - oganessyan\_01\_0705.pdf

### *Discussion*

- Same backplane and channels were used for the measurements. Only connectors were replaced.
- Presentations and proposals related to the document are all that should be brought forward in September, so new data presented should be document / comment specific only. The chair expressed that current channel models in library is satisfactory.
- ICR was not calculated at this time.

## Presentation #8

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Title – Further Refinement of ICR  
By – John D'Ambrosia  
See - dambrosia\_01\_0705.pdf

### *Discussion*

- Consider using integral of the crosstalk rather than a log fit. Possible solution to be explored.
- For implementation of this work into next version of document a complete proposal will need to be brought forward.
- Perhaps a section on use of models to simplify interpretation by reader.

Meeting Break at 3pm  
Meeting reconvened at 3:29pm

**Motion # 1**      General Session Motion  
**Description:**    Use Draft 1.0 and the resolution of comments against Draft 1.0 to generate Draft 2.0.  
**Motion Type:**    Technical 75 % required  
**Moved By:**        Fulvio Spagna  
**Seconded By:**    Mike Lerer  
**Results:**          All            Yes – 33      No – 0            Abstain - 0  
**P/F**                **Motion Passes**

**Motion # 2**      General Session Motion  
**Description:**    Move that the Task Force request that 802.3 circulate IEEE P802.3.ap Draft 2.0 for 802.3 Working Group Ballot and comment, and conduct recirculations as necessary.  
**Motion Type:**    Technical 75 % required  
**Moved By:**        John D'Ambrosia  
**Seconded By:**    Tom Palkert  
**Results:**          All            Yes – 37      No – 0            Abstain - 0  
**P/F**                **Motion Passes**

**Call for New Business – none**

**Ballot announcement – only sent to 802.3 voters**

Chair will forward announcement to task force members and accept comments, but will not have any 802.3 voting rights.

**Future Meetings**

September 2005 Interim, Week of Sept 12, Nashua, NH (Look at flying into Manchester, NH)  
November 2005 Plenary, Nov. 13-18, Hyatt Regency, Vancouver, BC, Canada

Discussion regarding comment resolution after going to working group ballot

- Parallel track won't be used due to overlap
- Comment resolution will be serial process
- TR comments will be considered and resolved carefully.

Motion to adjourn – Rich Mellitz,  
Seconded by – Mike Lerer

Approved by voice vote without objection.

Meeting adjourned at 3:52pm

		July Plenary	
First	Last	Tues July 19	Wed July 20
Joe	Abler	x	x
Arne	Alping	x	x
Stephen	Anderson	x	x
Scott	Barrick	x	x
Michael	Beck	x	
Harmeet	Bhugra		x
Peter	Bradshaw	x	x
David	Brearley		x
Matt	Brown	x	x
Chi-te	Chen	x	x
Qinglun	Chen	x	x
Kok-Wi	Cheong	x	x
Uri	Cummings		x
John	D'Ambrosia	x	x
Ilango	Ganga	x	x
Xiao-Ming	Gao	x	x
Edward	Gong	x	x
Tom	Gray	x	x
Asif	Hazarika		x
Adam	Healey	x	x
Gopal	Hegde		x
Sammy	Hindi		x
Brian	Holden	x	
Ishwar	Hosagrahar	x	
Thomas	Joergensen	x	x
Tatsuya	Kawashimo	x	x
David	Koenen		x
Aniruddha	Kundu	x	x
Daun	Langston	x	
Jeff	Lapak	x	
Greg	Le Cheminant		x
Mike	Lerer	x	x
Cathy	Liu	x	x
Arthur	Marek	x	x
Richard	Mellitz	x	x
Charles	Moore	x	x
Raed	Moughabghab	x	
Wayne	Mueller		x
Bobby	Nabili	x	x
Shinji	Nishimura	x	
Steve	Novak	x	
Satoshi	Obara	x	
Gourgen	Oganessyan		x
Tom	Palkert	x	x
Bill	Panos	x	x
Gautam	Patel	x	x
William	Peters	x	x
Hiroshi	Sakakibana	x	
Shannon	Sawyer	x	x
Vadim	Shain	x	
Steven	Shen	x	x
Fulvio	Spagna	x	x
Andre	Szczepanek	x	x
Dimitry	Taich	x	
Peter	Tomaszewski	x	x
Schelto	van Doorn	x	x
Nirmal	Warke	x	
Richard	Williams	x	x
Henry	Wong	x	x
Zhi	Wong		x
Yaochao	Yang	x	x