

Unapproved Minutes  
IEEE 802.3ba Task Force Plenary Meeting  
Jan 25 – 28, 2010  
New Orleans, LA, USA

Prepared by: John D'Ambrosia, Farhad Shafai, David Chalupsky, and Pete Anslow

Meeting convened at 9:02 am, Monday, Jan 25.

Agenda & General Information

By – John D'Ambrosia

See – agenda\_01\_0110.pdf

- Introductions – Everyone introduced themselves and stated their affiliation.
- Chair asked if there were any reporters in the room. No one responded. Chair reminded everyone that photographs or recordings are not allowed without permission.
- Motion to approve the agenda
  - Motion moved to accept the agenda by Steve Trowbridge, 2<sup>nd</sup> by Tom Palkert
  - Meeting agenda was approved by voice vote without objection.
- Motion to approve the Nov Plenary minutes
  - Following changes were sent to chair via email:
    - Chris Cole – Attendance on Wed, 11/18
    - Page 1 - Spurious full stop in “emails. by Pete Anslow, 2<sup>nd</sup> by Matt Traverso”
    - Page 2 - “Reconvened atm1:15pm” should be “Reconvened at 1:15pm”
    - Spelling – Change Shin Hyungtsoo to Shin Hyungsoo
  - Motion moved to accept minutes with noted corrections by Pete Anslow, 2<sup>nd</sup> by Brian Misek
  - November Plenary Meeting Minutes with noted corrections were approved by voice vote without objection.
- Goals for the week
- Big Ticket Items
  - Respond to comments against initial sponsor ballot IEEE P802.3ba Draft 3.0
  - XLPPI / 40GBASE-LR4
  - Lay groundwork for the next meeting - Draft 3.1
- Ground Rules
- IEEE Structure, Bylaws & Rules
  - Arthur Marris read and presented the IEEE Patent Policy slide set.
    - Chair did call for patents. No one identified any patents.
  - Inappropriate Topics for IEEE meetings read to the body by Arthur Marris
  - Chair advised the Task Force:
    - The IEEE's patent policy is consistent with the ANSI patent policy and is described in Clause 6 of the IEEE-SA Standards Board Bylaws;
    - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;

- There may be Essential Patent Claims of which the IEEE is not aware. Additionally, neither the IEEE, the WG, nor the WG chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.  
Presented Task Force Schedule and Timeline, meeting map and items to be addressed this week.
- Meeting attendance
  - During the Plenary Meeting, Must use the IEEE-SA Meeting Attendance Tool as it will be the basis of the official attendance record for this meeting.
  - Sign-in sheets are used for recording meeting attendance in TF minutes.

#### Presentation #1

Title – Chief Editor's Opening Report  
By – Ilango Ganga, Intel  
See – ganga\_01\_0110.pdf

#### Presentation #2

Title – Logic Subtask Force Opening Report  
By – Mark Gustlin, Cisco  
See – gustlin\_01\_0110.pdf

#### Presentation #3

Title – Cu Subtask Force Opening Report  
By – Chris DiMinico, MC Communications  
See – diminico\_01\_0110.pdf

#### Presentation #4

Title – Optical Subtask Force Opening Report  
By – Pete Anslow, Nortel  
See – anslow\_01\_0110.pdf

#### Presentation #5

Title – Combined Tracks Comment Resolution  
By – Pete Anslow  
See – anslow\_05\_0110.pdf

Break at 10:19 AM  
Reconvened at approximately 10:35AM

Comment resolution continued

Break for lunch at 12:03pm  
Reconvened at 1:15pm

Comment resolution continued

Break at approximately 3:15PM  
Reconvened at approximately 3:35PM

Comment resolution continued

Break for day at 8:15pm

### **Logic Track**

January 26, 2010

Meeting convened at 9:05am

Meeting chaired by Mark Gustlin  
Farhad Shafai volunteered to be recording secretary.

The Chair set the agenda for the meeting.

The Patent Policy slides were reviewed. The chair provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) that the participant believes may be essential for the use of that standard. No one came forward.

Comment review

Meeting break at 10:31am  
Meeting reconvened at 10:50am

Comment review continued  
Meeting break at 12:10pm

Meeting reconvened at 1:30pm

Comment review continued

Meeting break at 3:30pm  
Meeting reconvened at 3:45pm

Comment review continued

Meeting break at 6:15pm  
Meeting reconvened at 6:20pm

Comment review continued

Meeting break for day at 7:20pm

January 27, 2010

Meeting convened at 9:05am  
Meeting chaired by Mark Gustlin  
Farhad Shafai volunteered to be recording secretary.

The Chair set the agenda for the meeting.

The Patent Policy slides were reviewed. The chair provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) that the participant believes may be essential for the use of that standard. No one came forward.

Comment review

Meeting break at 10:26am  
Meeting reconvened at 10:40am

Comment review continued

Meeting break at 12:05m  
Meeting reconvened at 1:15pm

Comment review continued

Meeting break at 3:30pm  
Meeting reconvened at 3:45pm

Comment review continued

Meeting break at 4:40pm  
Meeting reconvened at 4:45pm

Comment review continued

Meeting break for day at 7:05pm

### **Copper Sub Task Force**

Tuesday, January 26, 2010  
Prepared by David Chalupsky

Meeting called to order at 9:10am, by Chris Di Minico, sub task force Chair, and Ryan Latchman

Everyone introduced themselves and stated their affiliation.

**Opening Information:** Chair went through his introductory presentation, diminico\_01\_0110.pdf.

- David Chalupsky was appointed recording secretary.
- Chair reviewed the ground rules.

- Chair displayed the Patent Policy and made a call for patents. No response to call for patents.
- Chair reviewed the agenda for the sub task force and goals for the meeting. Brian Misek requests that joint copper/optical track be moved to early Wednesday; Chair will investigate.
- 298 total comments to be resolved against the Copper Track clauses. 203 T/TR/ER to be reviewed in the meeting.

Chair reports status of key items to be resolved for Clause 85:

- Minimum channel and CA insertion loss
- Test fixture specifications

Comment resolution begins with Clause 85.

The Chair reviews a prepared list of similar comments.

Receiver Interference Tolerance Test comments.

Comment 698 is closed with Accept, then reopened for further discussion at the request of Mike Dudek. Response is modified and Accepted again.

10:30am: Chair calls break for 15 minutes.

After the 10:30am break, comment 698 re-opened again; this time only to change the disposition to Accept In Principal, as the response had been modified from the Proposed Response.

Comment 696 is reopened to add additional Response text so that it may also be used to satisfy additional comments.

Receiver Interference Tolerance Test comments completed. Begin Transmitter related comments.

12:00pm: Break for lunch, to resume at 1:05pm

1:07pm: Chair reconvenes with comment resolution on Clause 85.

Related to comment 862: Discussion about adding a minimum loss specification for the cable assembly. A minimum loss is necessary, but currently not specified on the assumption that the 0.5 meter minimum cable length provides adequate minimum loss. Concern that a cable manufacturer may “overachieve” on loss in a short cable with very low loss connector termination scheme, so a minimum should be explicitly specified. Consensus on a 3dB min loss, which approximates the loss of the cable paddle cards and wire termination used in contemporary cable assembly methods. Straw poll in the room passes 6-0 in support of making this a normative requirement.

2:45pm: Break for 15 minutes.

3:05pm: Chair resumes the meeting; comment resolution continues.

6:15pm: Break for dinner.

7:55pm: meeting reconvened.

Comment resolution continues with Clause 85.

Most of Clause 85 complete; moving to Clause 85A. Several comments which need participation from non-present commenters are deferred to tomorrow.

Returning to Clause 85 to complete PICS related comments.  
Clause 85 disposition complete (several deferred until Wednesday).  
12:12am Break for day.

Wednesday, January 27, 2010

Meeting called to order at 9:00am, Wednesday 27, 2010, by Chris Di Minico, sub task force Chair, and Arthur Marris

Everyone introduced themselves and stated their affiliation. Approximately 18 attendees at the start of the meeting.

**Opening Information:** Chair went through his introductory presentation.

- David Chalupsky was appointed recording secretary.
- Chair reviewed the ground rules.
- Chair displayed the Patent Policy and made a call for patents. No response to call for patents.
- Chair reviewed the agenda for the sub task force and goals for the meeting. Joint Copper/Optics session to begin at 3:30pm.
- 298 total comments to be resolved against the Copper Track clauses. 203 T/TR/ER to be reviewed in the meeting. Most Clause 85 comments resolved yesterday.
- Today's work will begin with the backplane comments led by Arthur Marris.

Comment resolution begins with Clause 69. Only one Clause 69 technical comment.  
Comment resolution continues with Clause 84.

Backplane technical comments completed. Moving back to unresolved Clause 85.comments.

Related to Comment 772, 773, and 774, Ali Ghiasi presents ghiasi\_03\_0110.pdf regarding optimal lane assignment for QSFP connector. Brief discussion follows.

Chair takes a straw poll on interest in pursuing the topic further: Yes: 9; No: 2

Chair allows 10minutes for further discussion. There is not consensus to change the draft based upon the proposed method.

10:43am: Chair calls a break for 15 minutes.

10:58am: Meeting resumes. Comment resolution continues with XLAUI/CAUI related comments, led by Ryan Latchman.

12:06pm: Break for lunch, to resume in one hour.

1:12pm: Reconvene. Comment resolution continues with 83A.

2:43pm: Break for 15 minutes

3:00pm: reconvene. Comment resolution continues with 83A.

Discussion on what comments to cover in upcoming joint Cu/Optical session.

3:30pm: Cu track participants changing rooms for joint session with Optical.

## **Joint session of Optical and Copper Sub Task Forces**

Wednesday, January 27, 2010

3:30pm

Pete Anslow presents relevant topics from Optical track.

Chris Di Minico presents relevant Copper comments. Comment 870 (changing low frequency range to 10MHz for all copper areas) generates significant discussion. To facilitate the decision, topic is decomposed into two questions which treat cable assembly equations separately from non-cable assembly equations. There is no opposition in the room to changing the lower limits to 10MHz for non-cable assembly equations.

For cables assemblies, a straw poll is taken (recorded in comment database) which indicates insufficient support for making this change to the cable assembly equations.

4:20pm: Joint track items completed. CU participants returning to their room.

Copper Sub Task Force

4:24pm: Ryan Latchman resumes comment resolution on XLAUI/CAUI.

XLAUI/CAUI comments complete. Chris Di Minico returns to the final Clause 85 comments.

7:46pm: Copper track business is concluded. Meeting adjourned.

## **Optical Sub-Task Force**

January 26, 2010

Prepared by Pete Anslow

Meeting convened at 9:01 am chaired by Pete Anslow

The Agenda was reviewed.

The Patent Policy slides were reviewed. The chair provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) that the participant believes may be essential for the use of that standard. No one came forward.

Comment review on comments against other clauses assigned to the Optical track.

Comment review on Clauses 87 & 88

Break at 10:40 am

Reconvened at 10:55 am

Comment review on Clauses 87 & 88

Break for lunch at 12:12 pm

Reconvened at 1:28 pm

Comment review continued

Break at 3:15 pm  
Reconvened at 3:32 pm

Comment review on Clauses 87 & 88  
Comment review on Clauses 86 & 86A

Optical Sub-Task Force meeting broke for the day at 6:30 pm.

January 27, 2010

Prepared by Pete Anslow  
Meeting convened at 9:01 am chaired by Pete Anslow

The Chair reminded the sub-task force of the IEEE Patent Policy and provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) that the participant believes may be essential for the use of that standard. No one came forward.

Comment review on Clause 86 & 86A continued

Break at 10:41 am  
Reconvened at 11:00 am

Comment review on Clause 86 & 86A continued

Break for lunch at 12:10 pm  
Reconvened at 1:27 pm

Comment review on Clause 86 & 86A continued

Break at 3:15 pm  
Reconvened at 3:30 pm

Joint meeting of the Optical and Copper Sub-Task Forces to review changes in either track affecting the other. Chaired by Pete Anslow and Chris Diminico

Optical Sub-Task Force Reconvened at 4:22 pm

Comment review on Clause 86 & 86A continued

Break for dinner at 6:52 pm  
Reconvened at 8:24 pm

Comment review on Clause 86 & 86A completed

Optical Sub-Task Force meeting adjourned at 10:12 pm.



## **Task Force**

Reconvened Thursday, Jan 28 @ approximately 9:00am

Comment resolution continued.

Comment resolution finished.

Logic Sub Task Force Closing Report (gustlin\_03\_0110.pdf)

Cu Sub Task Force Closing Report (diminico\_03\_0110.pdf)

Optical Sub Task Force Closing Report (anslow\_03\_0110.pdf)

Chief Editor's Closing Report (ganga\_02\_0110.pdf)

Informal communication to ITU-T SG15

See trowbridge\_01\_0110.pdf.

Update per task force discussion – trowbridge\_02\_0110.pdf

### Motion #1

- Move that IEEE P802.3ba Task Force approve the text in trowbridge\_02\_0110.pdf, attaching IEEE P802.3ba Draft 3.1, with editorial license granted to the Chair (or his appointed agent) as an informal communication by the Chair to ITU-T Study Group 15
- Moved by Steve Trowbridge
- Second by Pete Anslow
- Procedural (>50%)
- Result: Motion passes by voice vote without opposition.

Informal communication to InfiniBand Trade Association

See dambrosia\_01\_0110.pdf

### Motion #2

- Move that IEEE P802.3ba Task Force approve the text in dambrosia\_01\_0110.pdf, with editorial license granted to the Chair (or his appointed agent) as an informal communication by the Chair to the InfiniBand Trade Association.
- Moved by Tom Palkert
- Second by Brian Misek
- Procedural (>50%)
- Result: Motion passes by voice vote without opposition

### Motion #3

- Move that the Task Force:
  - Accept comment resolutions from D3.0 as recorded in the comment database.
  - Directs the IEEE P802.3ba editorial team to generate Draft 3.1, based on Draft 3.0 and the resolution of comments against Draft 3.0.
  - Request Working Group Chair to initiate Sponsor Ballot recirculation.
  
- Technical (=>75%)
  
- Moved by Ilango Ganga
- Second by Ali Ghiasi
  
- All Yes - 55          No - 0          Abstain – 0
- Results: Motion Passes

### Future Meetings

- Future Meeting information at:
  - <http://ieee802.org/3/interims/index.html>
- March 2010 IEEE 802 Plenary
  - March 14 - 19
  - Caribe Royale Orlando All Suites Resort and Convention Center
  - Orlando, FL, USA
- Tentative - April 2010 IEEE 802.3ba Interim
  - April 20
  - Location – San Jose, Ca, USA
- May 2010 IEEE 802.3 Interim
  - May 24 - 28
  - Geneva, Switzerland
- July 2010 IEEE 802 Plenary
  - July 11 - 16
  - Grand Hyatt Manchester
  - San Diego, CA, USA

April meeting is tentative IEEE P802.3ba interim meeting. May meeting is IEEE 802.3 interim. July meeting is IEEE 802 Plenary. Progress of the Task Force will impact whether the Task Force has to meet during any of these meetings.

Motion to adjourn – moved by Michael Dudek – Second by Brian Misek.  
Approved by voice vote without opposition.

Meeting adjourned at approximately 11:45am.

IEEE 802.3ba Attendance Sheet - Interim Meeting, Jan. 25-28, 2010, New Orleans, LA				1/25	1/26	1/27	1/28
Last Name	First Name	Employer	Affiliation	Mon	Tues	Weds	Thurs
Abbas	Ghani	Ericsson, UK	Ericsson, UK	x	x	x	x
Ambrose	Andrew	Alcatel-Lucent	Alcatel-Lucent			x	x
Anderson	Jon	Opnext	Opnext	x	x	x	x
Anslow	Pete	Nortel	Nortel	x	x	x	x
Balasubramanian	Vittal	FCI	FCI	x	x	x	x
Barrass	Hugh	Cisco	Cisco	x	x		
Belopolsky	Yakov	BEL	BEL	x	x	x	x
Brown	Matt	AMCC	AMCC			x	x
Carroll	Martin	Verizon	Verizon		x	x	
Casher	Patrick	Molex	Molex		x	x	
Chalupsky	David	Intel	Intel	x	x	x	x
Chang	Frank	Vitesse	Vitesse	x	x	x	x
Chantrell	Thomas	Legrano/Ortronics	Legrano/Ortronics	x	x	x	
D'Ambrosia	John	Force 10 Networks	Force 10 Networks	x	x	x	x
D'Andrea	Dave	Lightwire	Lightwire	x	x	x	x
Dawe	Piers	IPTronics	IPTronics	x	x	x	x
Diab	Wael	Broadcom	Broadcom			x	x
DiMinico	Christopher	MC Communications/LEONI	MC Communications/LEONI	x	x	x	x
Dudek	Mike	Qlogic	Qlogic	x	x	x	x
Estes	Dave	UNH - IOL	UNH - IOL	x	x	x	x
Flatman	Alan	LAN Technologies	LAN Technologies	x	x	x	x
Fogg	Michael	Tyco Electronics	Tyco Electronics	x	x	x	
Fromm	Galen	Molex	Molex		x		
Ganga	Ilango	Intel	Intel	x	x	x	x
Ghiasi	Ali	Broadcom	Broadcom	x	x	x	x
Green	Larry	Ixia	Ixia	x	x	x	x
Gupta	Atul	Inphi	Inphi	x	x	x	x

Gustlin	Mark	Cisco	Cisco	x	x	x	x
Hamano	Hiroshi	Fujitsu Labs Ltd	Fujitsu Labs Ltd	x	x	x	x
Healey	Adam	LSI	LSI	x	x	x	
Horner	Rita	Avago Technologies	Avago Technologies	x	x	x	x
Ishida	Osamu	NTT	NTT			x	x
Ito	Chikako	Yamaichi Electronics	Yamaichi Electronics	x	x		
Jiang	Qiaofeng	Nokia Siemens Network	Nokia Siemens Network	x	x	x	x
King	Jonathan	Finisar Corp.	Finisar Corp.	x	x	x	x
Kipp	Scott	Brocade	Brocade	x	x	x	
Kodama	Satoshi	NTT	NTT	x	x	x	x
Kolesar	Paul	CommScope	CommScope	x	x	x	
Kuo	Chien-Yu	Transillion Technologies, Inc.	Transillion Technologies, Inc.				x
Latchman	Ryan	Gennum	Gennum		x	x	x
Law	David	3Com	3Com	x	x	x	x
Lutz	Sharon	US Conec LTD.	US Conec LTD.	x	x	x	x
Maki	Jeffery	Juniper Networks	Juniper Networks	x	x	x	x
Marris	Arthur	Cadence	Cadence	x	x	x	x
McDonough	John	NEC America	NEC America				x
McSorley	Greg	Amphenol	Amphenol		x	x	x
Misek	Brian	Avago Technologies	Avago Technologies	x	x	x	x
Neer	Jay	Molex	Molex		x	x	
Noh	George	Vitesse Semiconductors	Vitesse Semiconductors	x	x	x	x
Ofelt	David	Juniper Networks	Juniper Networks	x	x	x	x
Oliver	Sam	Avalon Microelectornics	Avalon Microelectronics	x	x	x	
Palkert	Tom	Xilinx, Luxtera	Xilinx, Luxtera	x	x	x	x
Petrilla	John	Avago Technologies	Avago Technologies	x	x	x	x
Rivers	JR	Cumulus Networks	Cumulus Networks	x	x		
Searles	Shawn	Advanced Micro Devices	Advanced Micro Devices	x	x	x	
Shafai	Farhard	Sarance	Sarance	x	x	x	
Shang	Song	Semtech	Semtech		x		

Shin	Hyungsoo	LS Cable	LS Cable	x	x	x	x
Sparrowhawk	Bryan	Leviton	Leviton	x	x	x	
Stoddard	Andrew	Logo Optronics	Logo Optronics	x	x	x	x
Swanson	Steve	Corning	Corning	x	x	x	x
Tavacoli	Jim	Santur	Santur		x	x	
Thiagarajan	Sashi	Ciena	Ciena			x	x
Toyoda	Hidehiro	Hitachi	Hitachi	x	x	x	x
Tracy	Nathan	Tyco Electronics	Tyco Electronics	x	x	x	x
Trowbridge	Steve	Alcatel-Lucent	Alcatel-Lucent	x	x	x	x
Vaden	Sterling	OCC Fiber	OCC Fiber	x	x	x	x
Vanderlaan	Paul	Nexans	Nexans	x	x	x	x
Warland	Tim	Applied Micro	Applied Micro	x	x	x	x
Yeong	Yoon-Bin	ETRI	ETRI				x
Zivny	Pavel	Tektronix	Tektronix	x	x	x	x