

Approved Minutes
IEEE 802.3ba Task Force Interim Meeting
May 4-7, 2009
Quebec City, QC, Canada

Prepared by: George Oulundsen

Meeting convened at 8:43 am, Monday, May 4, 2009.

Agenda & General Information

By – John D'Ambrosia

See – agenda_01_0509.pdf

- Introductions – Everyone introduced themselves and stated their affiliation.
- Motion to approve the agenda
 - Motion moved to accept the agenda by Mark Gustlin, 2nd by David Law.
 - Meeting agenda was approved by voice vote without objection.
- Motion to approve the March Plenary minutes
 - One change was noted. A file name was incorrectly entered. The file name “trowbridge_03_1108.pdf” on Page 6 should be corrected to be “trowbridge_01_0309.pdf”.
 - Motion moved to accept minutes with the correction to the file name by Hugh Barrass, 2nd by Pete Anslow.
 - March Plenary Meeting Minutes were approved by voice vote without objection.
- Chair acknowledged and thanked Tyco for hosting the meeting and all the Editors for working on this draft.
- Chair went through his introduction presentation “agenda_01_0509.pdf”
- Goals for the week
 - Progress Towards Generating Draft 2.1
 - Comment Resolution of Draft 2.0
 - Lay groundwork for the next meeting.
- Ground Rules
- Chair asked if there were any reporters in the room. No one responded. Chair reminded everyone that photographs are not allowed without permission.
- Review of Task Force objectives
- IEEE Structure, Bylaws & Rules
- IEEE Patent policy read to the body by Chris DiMinico.
 - Chris DiMinico 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 Chris DiMinico.
- 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 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.
- Reviewed the work we need to do in the Task Force Review with the goals to get to next draft. Need to get to 75% approval rating, currently we have less than 75% approval.
- Chair asked the Task Force if there were any objections to hearing a proposal related to extended reach over MMF by Paul Kolesar (kolesar_05_0509.pdf). There were no objections.
- Chair also received a late request for a presentation (ho_01_0509.pdf) from Francis Ho, Inphi. The Chair asked if there were any objections to hearing Francis' presentation in the Optics Sub-Task Force, pending time availability. There were no objections. Francis will present at the end of comment resolution in the Optics Sub Task-force.
- Meeting attendance
 - Must use the IEEE-SA Meeting Attendance Tool as it will be the basis of the official attendance record for this meeting.
 - Adam Healy reviewed some log-in changes to the IEEE-SA Meeting Attendance Tool and rules.
- Reviewed Voting Privileges
 - Attendance at interim and plenary meetings is important
 - Chair reminded everyone that they must vote on draft ballots to maintain their 802.3 voting rights.
 - Current Working Group Ballots are 802.3ba, 802.3bb, and 802.3bc.
- Chair reminded everyone to declare his or her affiliation.
- Chair informed the Task Force that the Sub Task Force chairs had requested that the chair inquire into having an adjacent and co-located interim meeting with the July Plenary. Progress at this meeting will be monitored to determine if the interim meeting is necessary.

Presentation #1 (Editorial Update)

Title – Chief Editor's Opening Report
 By – Ilango Ganga, Intel
 See – ganga_01_0509.pdf

Discussion

- Clarifying questions were asked and answered.

Presentation #2 (Editorial Update)

Title – Logic Sub-Task Force Opening Report
 By – Mark Gustlin, Cisco
 See – gustlin_01_0509.pdf

Discussion - none

Presentation #3 (Editorial Update)

Title – Copper Sub-Task Force Opening Report
 By – Chris DiMinico, MC Communications
 See – diminico_01_0509.pdf

Discussion - none

Presentation #4 (Editorial Update)

Title – Optical Sub-Task Force Opening Report

By – Pete Anslow, Nortel

See – anslow_01_0509.pdf

Discussion - none

Break at 9:57 AM

Reconvened at 10:23 AM

Chair asked if there were any objections to having pictures taken. There were no objections. Lynn Kennedy, Meeting Planner, will be taking some pictures.

After the break, Chief Editor, Ilango Ganga, chaired the Task Force comment resolution session.

Pete Anslow presented anslow_05_0509.pdf, which detailed comments for consideration by the Task Force. He preceded to lead the group through these comments and their resolution.

Break for lunch at 12:20 PM

Reconvened at 1:45 PM.

Comment resolution continued.

Break at 3:20 PM

Reconvened at 4:00 PM

Comment resolution continued.

Comment #'s 648 and 487 address single definition of service interface referenced by other clauses. Ilango Ganga presented ganga_03_0509.pdf. There was significant discussion. No resolution at this time, so the comments were referred to the Logic Sub Task Force for further discussion and a recommendation. The recommendation will be presented for Task Force approval at the closing Task Force meeting on Thursday morning.

Break at 8:00 PM

Reconvened on Tuesday, May 5, 2009 at 8:30 AM as Sub-Task Force Groups in different meeting rooms. Sub-Task Force Groups minutes are included here for completeness.

IEEE P802.3ba Logic Sub-Task Force

May5-6, 2009

Minutes prepared by Farhad Shafai and edited by George Oulundsen

Meeting to Address Logic Clauses (Logic Track)

May 5, 2009

Meeting convened at 8:36am

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

The Chair reviewed 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 10:00am
Meeting reconvened at 10:15am

Comment review continued.

Meeting break at 11:45pm
Meeting reconvened at 1:07pm

Comment review continued.

Meeting break at 2:53pm
Meeting reconvened at 3:17pm

Comment review continued.

Meeting break for day at 6:44pm

Meeting to Address Logic Clauses (Logic Track) reconvened at 8:50 AM on May 6, 2009

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

Comment review continued.

Meeting break at 10:25am
Meeting reconvened at 10:56am

Comment review continued.

Meeting break at 12:00pm
Meeting reconvened at 1:00pm with combined optical and logic tracks

Comment review continued.

Meeting break at 1:40pm with optical and logic tracks separating
Meeting reconvened at 1:50pm with only the logic track

Comment review continued.

Meeting break at 3:11pm

Meeting reconvened at 3:40pm with combined copper and logic tracks

Comment review continued.

Meeting break at 4:02pm with copper and logic tracks separating

Meeting reconvened at 4:08pm with only the logic track

Meeting break for day at 6:20pm

IEEE P802.3ba Copper Sub-Task Force

May 5-6, 2009

Minutes prepared by David Chalupsky and edited by George Oulundsen

802.3ba Copper Sub Task Force, Tuesday, May 5, 2009

Meeting called to order at 8:47am, May 5, 2009, by Chris Di Minico, sub task force Chair, and Ryan Latchman.

Chair went through his introductory presentation.(diminico_02_0509.pdf)

Introductions – everyone introduced themselves and stated their affiliation

David Chalupsky was appointed recording secretary.

Chair recognized Pete Anslow and Mark Gustlin for their presentation yesterday on mean time to false packet acceptance

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

Over 300 comments to be resolved against the Copper Track clauses.

Cu Sub Task Force begins comment resolution

Ali Ghiasi presented ghiasi_04_0509.pdf in relation to Comment #85 and other test board related comments.

Tom Palkert presented additional CR4/10 test point information (to be named palkert_01_0509.pdf) showing that actual mated test board pair with connector is exceeding current proposal; about 3dB loss at Nyquist.

Break for lunch at 11:55. Reconvened at 1:17pm.

Chris DiMinico presented the Clause 85 and 86 versions of the trace fixture boards' maximum trace loss equations, w/ Cl85 version scaled to match the Cl86 version at 5GHz.

Related to comment 609 John Petrilla presented petrilla_01_0509.pdf.

Break at 3:00 PM. Reconvened at 3:40 PM.

Chair reminded the group that the joint meeting for Cu & Optical track for Wednesday will be at 8:30am for work on 502, 521, 48.

Related to comment 706 Vittal presents balasubramanian_01_0509.pdf.

Dinner break at 5:05 PM. Reconvened at 7:45 PM.

Comment resolution continues

Related to comment 697, three presentations were reviewed and discussed:

Brian Misek presented moore_01_0509.pdf

Adam Healey presented brown_01_0509.pdf

Ali Ghiasi presented moore_01_0509.pdf

Break at 12:14 AM – sub task force break for the day

Reconvened on May 6, 2009 at 8:30 AM as combined Copper and Optical sub tasks forces met in joint session. Proceedings recorded by Optical track secretary.

802.3ba Copper Sub Task Force reconvened on Wednesday, May 6, 2009 at 9:47 AM

Chair went through his introductory presentation.(diminico_02_0509.pdf)

Introductions – everyone introduced themselves and stated their affiliation

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.

Comment resolution begins with the backplane comments at 9:54am, led by Arthur Marris.

Break at 10:23 AM. Reconvened at 10:43 AM.

Comment resolution continues with Clause 84.

Related to comment 405 Ali Ghiasi presented: ghiasi_03_0509.pdf

Break for lunch at 11:55 AM. Reconvened at 1:00 PM.

Comment resolution continues.

Break at 3:08 PM. Reconvened at 3:38 PM.

Joint session with Logic track

Related to comment 71 the presentation. daw_04_0509.pdf was reviewed.

Room attendance was 16 from Logic Track, 6 from Copper track.

Joint Session ended at 4:00pm, Copper Track returns to comments resolution.

Related to comment 788 Mike Li presented li_01_0509.pdf.

Straw poll: should a scope BW requirement be in the standard? Result: In 3, Out 7
Not enough consensus to remove it. Scope BW of at least 18Ghz is adopted.
Presentation continues in support of Comment #789 regarding jitter noise floor for test equipment.

Related to comment 420 Ali presented ghiasi_03_0509.pdf

Break for dinner at 7:08 PM. Reconvened at 8:38 PM.

Comment resolution continued.

Related to comment 700 Brian Misek presented moore_02_0509.pdf.

Motion by Tom Palkert, (multiple 2^{nds}) to grant Editor license to review comment database and remove any personalized text in Responses. (i.e. "I think..."). Motion passes unanimously by voice.

Chair continued with resolution of ER comments.

12:37am - Copper Sub-taskforce business is complete. Meeting adjourned.

IEEE P802.3ba Optics Sub-Task Force

Minutes Optics Sub-Task Force Meeting May 5, 2009

Prepared by Pete Anslow

Meeting convened at 8:30 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 11 comments from Clauses 1, 30 and 80 assigned to optical track.

9:30 am comment review on Clauses 87 & 88 T/TR

Break at 10:15 am

Reconvened at 10:32 am

Comment review on Clauses 87 & 88 T/TR continued

Break for lunch at 12:02 pm

Reconvened at 1:12 pm

2:30 pm comment review on Clause 86 T/TR

Break at 3:15 pm
Reconvened at 3:45 pm

Comment review on Clause 86 T/TR continued

At 6:05 Chair asked the sub-task force if they wished to break for dinner and then re-convene or continue until at least 50% of the comments on the agenda were resolved. After some discussion it was agreed to continue.

Optical Sub-Task Force meeting broke for the day at 7:13 pm.

Minutes Joint Copper / Optics Sub-Task Force Meeting May 6, 2009 Prepared by Pete Anslow
Meeting convened at 8:34 am chaired by Chris DiMinico and Pete Anslow

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 #502, #521 and #48

In connection with comments #502, #521 a request for a late presentation was made by Piers Dawe. There was no objection to this, so dawe_05_0509 was presented.

9:30 am comment review completed. The two sub-task forces separated to continue comment resolution.

Minutes Optics Sub-Task Force Meeting May 6, 2009
Prepared by Pete Anslow
Meeting convened at 9:31 am chaired by Pete Anslow

Pete 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 T/TR continued

During the discussion of comment #277, a straw poll of the sub-task force was taken:
Do you support the creation of an informative annex similar to that proposed in
kolesar_04_0509.pdf?

Yes 10
No 9
Abstain 7

Break at 10:35 am
Reconvened at 10:52 am

Comment review on Clause 86 T/TR continued

Break for lunch at 12:01 pm

Reconvened at 1:45 pm after the joint Logic / Optical track meeting

Comment review on Clause 86 T/TR continued

Break at 3:15 pm

Reconvened at 3:33 pm

Comment review on Clause 86 T/TR completed

Comment review on Clauses 86, 87 & 88 ER

Comment review on Clauses 86, 87 & 88 ER completed

ho_01_0509.pdf "Limiting Versus Linear Optical Receiver for Stressed Receiver Sensitivity" was presented and discussed.

Optical Sub-Task Force meeting adjourned at 8:38 pm.

Task Force reconvened at 8:40 AM on Thursday, May 07, 2009

Chair asked if there was anyone not familiar with the patent slides. None responded. The Chair did a call for patents. No one identified any patents.

Chief Editor, Ilango Ganga, led the Task Force through a list of folks that have not identified if they are satisfied with the response to their comment or not. The individuals were asked to let him know if they were satisfied. Ilango then led the Task Force through a few comments that still needed to be resolved. Those comments were 648, 487, 454, 793, 792, and 475. There were discussions related to comments 48 and 521 and how they were reviewed and resolved. The responses were entered in the database.

The Chair asked if there were any other comments that needed to be reviewed. There were none.

Presentation #5 (Editorial Update)

Title – Logic Sub-Task Force Closing Report

By – Mark Gustlin, Cisco

See – gustlin_03_0509.pdf

Discussion

- Clarifying questions were asked and answered.

Presentation #6 (Editorial Update)

Title – Optical Sub-Task Force Closing Report

By – Pete Anslow, Nortel

See – anslow_03_0509.pdf

Discussion - none

Presentation #7 (Editorial Update)

Title – Copper Sub-Task Force Closing Report
By – Chris DiMinico, MC Communications
See – diminico_03_0509.pdf

Discussion

- Clarifying questions were asked and answered.

Break at 9:50 AM

Reconvened at 10:28 AM

Presentation #8 (Editorial Update)

Title – Chief Editor's Closing Report
By – Ilango Ganga, Intel
See – ganga_02_0509.pdf

Discussion

- Clarifying questions were asked and answered.

Motion #1: Move that the Task Force:

- Accept comment resolutions from D2.0 as recorded in the comment database.
- Directs the IEEE P802.3ba editorial team to generate Draft 2.1, based on Draft 2.0 and the resolution of comments against Draft 2.0.
- Request Working Group Chair to Conduct an IEEE 802.3 WG recirculation ballot for P802.3ba/D2.1.

Moved by: Ilango Ganga

Second by: Mark Gustlin

Technical ($\geq 75\%$)

Results:

Yes – 41

No – 0

Abstain - 0

Motion Passes

Future Meetings:

Future Meeting information can be found at: <http://ieee802.org/3/interims/index.html>

July 2009 IEEE 802 Plenary

- Will request a co-located and adjacent Interim.
- July 12 – 17
- Hyatt Regency San Francisco at Embarcadero Center

- San Francisco, CA, USA

Sept 2009 IEEE 802.3 Interim

- To be announced

Nov 2009 IEEE 802 Plenary

- Nov 15 – 20
- Hyatt Regency Atlanta
- Atlanta, GA, USA

Motion to adjourn - moved by Steve Trowbridge; 2nd by Frank Chang. Motion approved by voice vote without objection.

Meeting adjourns at approximately 11:00 AM on Thursday, May 7, 2009.

Attendee List for IEEE 802.3ba Interim Meeting held May 4-7, 2009 according to the 802.3ba Task Force attendance sheets/books:

IEEE 802.3ba Attendance Sheet - Interim Meeting, May 4-7 2009, Quebec City, Quebec				5/4/2009	5/5/2009	5/6/2009	5/7/2009
Last Name	First Name	Employer	Affiliation	Mon	Tues	Weds	Thurs
Abbas	Ghani	Ericsson, UK	Ericsson, UK	X	X	X	X
Abbott	John	Corning	Corning	X	X	X	X
Anslow	Pete	Nortel	Nortel	X	X	X	X
Balasubramanian	Vittal	FCI	FCI	X	X	X	X
Baldwin	Thananya	Ixia	Ixia	X	X	X	
Barrass	Hugh	Cisco	Cisco	X	X	X	
Bergmann	Ernest	Circadiant Systems/JDSU	Circadiant Systems/JDSU	X	X	X	X
Booth	Brad	AMCC	AMCC	X	X	X	X
Chalupsky	David	Intel	Intel		X	X	X
Chang	Frank	Vitesse	Vitesse	X	X	X	X
Coleman	Doug	Corning	Corning		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	Avago Technologies	Avago Technologies	X	X	X	X
DiMinico	Christopher	MC Communications/LEONI	MC Communications/LEONI	X	X	X	X
Drolet	Patrick	EXFO	EXFO	X	X	X	
Dudek	Mike	Independent	Commscope	X	X	X	X
Dupuis	Mark	Madison Cable	Madison Cable	X	X	X	X
Flatman	Alan	LAN Technologies	LAN Technologies	X	X	X	X
Frazier	Howard	Broadcom	Broadcom		X		
Fromm	Galen	Molex	Molex		X	X	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
Gustlin	Mark	Cisco	Cisco	X	X	X	X
Healey	Adam	LSI	LSI	X	X	X	
Ho	Francis	Inphi	Inphi	X	X	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	X
Kobayashi	Shoukei	NTT	NTT	X	X	X	X
Kolesar	Paul	CommScope	CommScope	X	X	X	X
Latchman	Ryan	Gennum	Gennum	X	X	X	
Law	David	3Com	3Com	X	X	X	X

Lewis	David	JDSU	JDSU	X	X	X	X
Li	Mike	Altera	Altera	X	X	X	X
Lingle, Jr.	Robert	OFS	OFS	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	X	X	X
Misek	Brian	Avago Technologies	Avago Technologies	X	X	X	X
Moeller	Merrick	Cinch Connectors	Cinch Connectors		X	X	
Muller	Shimon	Sun	Sun	X	X	X	X
Noh	George	Vitesse Semiconductors	Vitesse Semiconductors		X	X	X
Nordin	Ron	Panduit Corp.	Panduit Corp.	X	X	X	
Nowell	Mark	Cisco	Cisco	X	X	X	
Ofelt	David	Juniper Networks	Juniper Networks	X	X	X	X
Oulundsen	George	OFS	OFS	X	X	X	X
Palkert	Tom	Xilinx, Luxtera	Xilinx, Luxtera	X	X	X	X
Pepper	Gerald	Ixia	Ixia	X	X	X	
Petrilla	John	Avago Technologies	Avago Technologies	X	X	X	X
Pimpinella	Rick	Panduit Corp.	Panduit Corp.	X	X	X	
Sambasivan	Sam	AT&T	AT&T	X	X	X	X
Searles	Shawn	Advanced Micro Devices	Advanced Micro Devices		X	X	X
Shafai	Farhard	Sarance	Sarance	X	X	X	X
Sheth	Siddharth	Netlogic Microsystems	Netlogic Microsystems	X	X	X	X
Simsarian	Jesse	Alcatel-Lucent	Alcatel-Lucent	X	X	X	X
Swanson	Steve	Corning	Corning	X	X	X	X
Szczepanek	Andre	Texas Instruments	Harwood and Szczepanek Consulting		X	X	X
Thornton	Bob	Fujitsu Component America	Fujitsu Component America		X	X	X
Tracy	Nathan	Tyco Electronics	Tyco Electronics	X	X	X	X
Traverso	Matt	Opnext	Opnext	X	X	X	
Trowbridge	Steve	Alcatel-Lucent	Alcatel-Lucent	X	X	X	X
Vanderlaan	Paul	Nexans	Nexans	X	X	X	X