Unconfirmed Meeting Minutes: IEEE P802.3bz 2.5G/5GBASE-T Task Force
July 14-15, 2015
Waikoloa, HI

Prepared by Jon Lewis

IEEE P802.3bz 2.5G/5GBASE-T Task Force meeting convened at 9:08AM, Tuesday, July 14, 2015 by David Chalupsky, Task Force Chair.

Attendance is listed in Appendix A

ADMINISTRATIVE MATTERS
Presentation: agenda_3bz_01a_0715.pdf
Presenter: Dave Chalupsky, Chair.

The Chair called for introductions and affiliations, the participants introduced themselves, and the Chair then proceeded with the agenda.

The Chair reviewed the agenda. Mr. Chalupsky turned to presentation agenda_3bz_01a_0715.pdf and reviewed the schedule of presentations for the meeting.

Motion #1:   Approve the agenda from agenda_3bz_01a_0715.pdf

M: Jon Lewis   S: Paul Vanderlaan
Approved by voice vote without objection (Procedural > 50%) at 9:17am

Motion #2:   Approve the minutes from the May 2015 P802.3bz meeting.

M: George Zimmerman   S: Theo Brillhart
Approved by voice vote without objection (Procedural > 50%) at 9:18am

The Chair then resumed the review of the agenda presentation:

- Mr. Chalupsky asked if anyone was attending from the press including those who would run a public blog on this meeting – there were no indications from the group.
- Mr. Chalupsky noted that there should be no recording or photography without permission.

Mr. Chalupsky reviewed the goals for the meeting, access to the reflector and website, and ground rules.
Mr. Chalupsky then continued review of the presentation, including the objectives for the projects and Big Ticket items for this.

Attendance, Mr. Chalupsky advised the group of the IEEE meeting attendance tool and procedures, including both the attendance book and the web attendance tracking tool.

IEEE Patent Policy, at **9:29 AM**, Mr. Chalupsky showed slides 0 through 4 patent policy from agenda_3bz_01a_0715.pdf. Mr. Chalupsky showed slide 0 and read aloud slides 1 through 4. Mr. Chalupsky made the call for potentially essential patents at **9:31 AM**, and none responded. Mr. Chalupsky then completed the reading of slide #4.

LIAISONS
The Chair moved to liaisons, and noted the Task Force had received no liaisons for 802.3bz.

The Chair completed review of the presentation noting the project objectives were unchanged from the prior meeting.

PRESENTATIONS

The Chair then moved to the presentations for the meeting.

Title: Architecture ad hoc report (jones_3bz_01_0715.pdf)
Presenter: Peter Jones, Cisco Systems
Abstract: Review status of 802.3bz Architecture Ad Hoc including
- Charter, scope/deliverables, location
- Activity since Pittsburgh
- Further work

Discussion:
- No comments.

Title: ENUCA ad hoc report (feyh_3bz_01_0715.pdf)
Presenter: German Feyh, Broadcom Corp.
Abstract: The presenter described the status of the Enterprise Noise and Use Case Analysis Ad Hoc (ENUCA).
- Charter, scope/deliverables, location
- Activity since Pittsburgh
- Further work

Discussion:
- Comments concerning the cable clamp test and the usage model were made.

Title: Use Case ad hoc report (diminico_3bz_02_0715)
Presenter: Chris Diminico, MC Communications/Panduit
Abstract: The presenter described the status of the Use Case Ad Hoc.
- Charter, scope/deliverables, location
- No activity since Pittsburgh
- Further work

Discussion:

- Discussion about the minimum bundled.

Break for coffee at 10:03AM

Meeting resumed at 10:28AM

Title: 802.3bz Editor's Report (zimmerman_3bz_01c_0715.pdf)
Abstract: The editor reported on the status and comments received of the draft 0.1, along with a proposed agenda for comment resolution.
Presenter: George Zimmerman, CME Consulting / Aquantia & Commscope, Chief Editor IEEE 802.3bz
Discussion:
The Chief Editor presented his report, including the present status of the draft, a summary of comments received against D 0.1.

Mr. Zimmerman presented the Proposed Comment Resolution Agenda and asked the group if there were objections or modifications to the agenda. None heard.

The Editor outlined the comments by topic, and reminded participants that the comments had been posted by topic on the website, with the Editor reminding the group via reflector to review the EZ bucket, as this group was intended to be approved by a single motion.

The editor then asked the group if anyone wished to view the EZ bucket comments on the screen; no request was made and the comments were not displayed. The Editor then asked the group that if anyone wished to remove a comment from the EZ bucket, then do so now. No comments were requested to be removed from the EZ bucket.

The Editor then presented the following motion:

Motion #3:   Approve the proposed resolution of all EZ comments, marked with the EZ Topic in review http://www.ieee802.org/3/bz/comments/EZ_Committee report_CommentID_3bz_d0p1_proposed.pdf with no exceptions.

M: George Zimmerman   S: Jon Lewis
Approved by voice vote without objection (Procedural > 50%) at 10:40AM

Motion #4:   Approve the proposed resolution of all BQEZ comments, marked with the BQEZ Topic as submitted to the reflector in file BQEZ_Committee report_CommentID_proposed.pdf without exceptions.

M: George Zimmerman   S: Jon Lewis
Approved by voice vote without objection (Procedural > 50%) at 10:43AM

The Editor reviewed a summary of the remaining topics and the comment resolution agenda.

At this time, the editor's report was concluded and comment resolution began.

Decisions during comment resolution were made by consensus, except where noted that motions were taken.

COMMENT RESOLUTION

Title: 2.5G/5G EEE Consensus Proposal (Shirani_3bz_01a_0715.pdf)
Presenter: Ramin Shirani, Aquantia
               Tom Souvignier, Broadcom
               William Lo, Marvell
Abstract: Provides a consensus presentation and modifications to baseline text for EEE.

Motion #5: Move to adopt EEE Consensus Baseline Proposal as defined in Shirani_3bz_01a_0715.pdf pages 3 and 4 as the basis for EEE for 802.3bz draft.

M: Ramin Shirani   S: Tom Souvignier

Approved by voice vote without objection (technical >= 75%) at 11:31AM

Title: Transmit Power Back-off (PBO) for 2.5G and 5G BASE-T (Sedarat_3bz_01_0715.pdf)
Presenter: Hossein Sedarat, Aquantia
Abstract: To define the PBO table for 802.3bz
Discussion: There were comments regarding topology.

THE GROUP BROKE FOR LUNCH AT 12:27PM, TO RESUME AT 1:30PM

THE GROUP RESUMED at 1:52PM..

Title: Periodic Training Sequence Issues for 40G/2.5G/5GBASE-T (McClellan_3bq_01_0715.pdf)
Presenter: Brett McClellan, Marvell Semiconductor
Abstract: This contribution details issues with the periodic training sequence copied into 802.3bz from 802.3bq. Pertains to Comment 86.

Motion #6: Move to accept comment 86 as proposed by the commenter.
M: Brett McClellan S: Kamal Dalmia
Y: 28 N: 2   A: 8
MOTION PASSES at 2:52PM (Technical >= 75%)

Motion #7: Move to accept commenter's proposed resolution to comment 107.
M: Hossein Sedarat   S: Tom Souvignier
Y: 14 N: 2   A: 19
MOTION PASSES at 3:07PM (Technical >= 75%)

Title: Link Segment Considerations (diminico_3bz_1_0715.pdf)
Presenter: Chris Diminico, MC Communications/Panduit
Abstract: Link Segment Specifications

Title: Salz SNR Calculation for 2.5G and 5G BASE-T over various bundling distances of 5e/6 Cabling (Mei_3bz_01_0714.pdf)
Presenter: Richard Mei, Commscope
Discussion: Discussion about what is limiting the SNR, ANEXT or AFEXT.

Title: Cable Qualification for 2.5G and 5GBASE-T (Sedarat_3bz_02_0715.pdf)
Presenter: Hossein Sedarat, Aquantia

Motion #8: **Move that "Coupling between link segments" will be determined by an SNR-derived metric, and charter the editorial team to prepare a framework draft of Clause 126.7.3 based on Sedarat_3bz_02_0715.pdf for preview by appropriate ad hocs and consideration for inclusion at the September meeting. Chair to task appropriate ad hocs to hear contributions to fill technical content of new 126.7.3.**

M: George Zimmerman   S: Theo Brillhart
(Technical >= 75%)
Y: 32 N: 0 A: 4
MOTION PASSES at 5:22PM

The meeting was recessed for the day at 5:54 PM, Tuesday, May 19, 2015.

The meeting was resumed at 9:08AM, Wednesday, May 20, 2015.

Mr. Chalupsky inquired if there was anyone new in the room and since there were some new attendees he proceeded with administrative matters.

The Chair called for introductions and affiliations, the participants introduced themselves, and the Chair then proceeded with the agenda.

The Chair reviewed the agenda. Mr. Chalupsky turned to presentation agenda_3bz_01a_0715.pdf and reviewed the schedule of presentations for the meeting.

The Chair then resumed the review of the agenda presentation:

- Mr. Chalupsky asked if anyone was attending from the press including those who would run a public blog on this meeting – there were no indications from the group.
- Mr. Chalupsky noted that there should be no recording or photography without permission.

Mr. Chalupsky reviewed the goals for the meeting, access to the reflector and website, and ground rules.
Mr. Chalupsky then continued review of the presentation, including the objectives for the projects and Big Ticket items for this.

Attendance, Mr. Chalupsky advised the group of the IEEE meeting attendance tool and procedures, including both the attendance book and the web attendance tracking tool.

IEEE Patent Policy, at **9:29 AM**, Mr. Chalupsky inquired if there was anyone in the room that was unfamiliar with the IEEE patent from agenda_3bz_01a_0715.pdf, none responded. Mr. Chalupsky made the call for potentially essential patents at **9:15 AM**, and none responded. Mr. Chalupsky then completed the reading of slide #4.

COMMENT RESOLUTION

Meeting was recessed at 10:03 AM to resume after 802.3bq completes.
Meeting resumed at 10:08 AM.

Motion #9: **Instruct the editor to create D1.0 from D0.1 and comment resolution p802p3bz_d0p1_final_commentID.pdf adopted at this meeting and initiate task force review.**
M: George Zimmerman   S: Jon Lewis
(Technical >= 75%)
Y: 42 N: 0   A: 0
MOTION PASSES at 10:31AM

Meeting recessed for a break at 10:38 AM

Meeting resumed at 11:07 AM

Presentations not related to comment resolution:

Title: Premises Cabling Impulse Noise Results (moffitt_3bz_01_0715.pdf)
Presenter: Bryan Moffitt, Commscope
Discussion: What is already available in the cabling standards to determine what else is necessary and what further work needs to be accomplished.

Straw Poll #1: I would support the addition of an impulse noise test for the PHY to the 802.3bz standard.
Y: 4   N: 19 A: 15

Meeting recessed for lunch at 11:49 AM to resume at 1:08 PM

Meeting resumed after lunch at 1:19 PM

Comment resolution continued.

Break at 3:10 back at 3:30 PM

Meeting resumed after the break at 3:41 PM

Having completed the presentations and comment resolution business for the meeting, the Chair discussed potential P802.3bz schedule options.

The Chair reviewed future meeting plans.

No further motions of business were offered.

Adjournment

<u>Motion #10:</u> To adjourn the meeting.
M: Jon Lewis   S: Ramin Shirani
MOTION PASSES by voice without opposition
The Meeting was adjourned at 4:31PM, Tuesday, May 18, 2015.

Appendix A: Attendees at the IEEE P802.3bz 2.5G/5GBASE-T Task Force Meeting, July 14-15, 2015

Total attended:	47		Daily # attended:	45	39
P802.3bz July'15				**7/14/15**	**7/15/15**
Last Name	**First Name**	**Employer**	**Affiliation**	**Tuesday**	**Wednesday**
Bains	Amrik	Cisco	Cisco	X	
Brillhart	Theo	Fluke Electronics	Fluke Electronics	X	X
Carty	Clark	Cisco	Cisco	X	X
Cates	Ron	Marvell	Marvell	X	X
Chacon Simon	Geoffrey	HP	HP	X	X
Chadha	Mandeep	Microsemi	Microsemi	X	X
Chalupsky	David	Intel	Intel	X	X
Chang	Jacky	HP	HP	X	X
Chuang	Keng Hua	HP	HP	X	X
Dalmia	Kamal	Aquantia	Aquantia	X	X
Deborde	William	Intel	Intel	X	X
DiMinico	Christopher	MC Communications	Panduit	X	
Dinh	Thuyen	Pulse Electronics	Pulse Electronics	X	X
Donahue	Curtis	UNH - IOL	UNH - IOL	X	
Estes	Dave	Spirent	Spirent	X	X
Farjad	Ramin	Aquantia	Aquantia	X	X
Feyh	German	Broadcom	Broadcom	X	X
Flatman	Alan	LAN Technologies	LAN Technologies	X	X
Hammond	Bernard	TE Connectivity	TE Connectivity	X	X
Jimenez	Andrew	Anixter Inc.	Anixter Inc.	X	X
Jones	Peter	Cisco	Cisco	X	X
Kawatsu	Yasuaki	Hitachi-Cable	Hitachi-Cable	X	
Kim	Yong	Broadcom	Broadcom	X	X
Klempa	Mike	UNH-IOL	UNH-IOL	X	X
Kountz	Dennis	Chemours	Chemours	X	
Lackner	Hans	QoSCom Gmbh	QoSCom Gmbh	X	X
Lewis	Jon	Dell	Dell	X	X
Lo	William	Marvell	Marvell	X	X
Maguire	Valerie	Siemon	Siemon	X	X
McClellan	Brett	Marvell	Marvell	X	X
Mei	Richard	Commscope	Commscope	X	X
Moffitt	Bryan	Commscope	Commscope	X	X
Rabinovich	Rick	ALE	ALE	X	
Renteria	Victor	Belfuse Inc	Belfuse Inc	X	X
Rossbach	Martin	Nexans	Nexans	X	X
Sedarat	Hossein	Aquantia	Aquantia	X	X
Shariff	Masood	Commscope	Commscope		X

Shirani	Ramin	Aquantia	Aquantia	X	X
Souvignier	Tom	Broadcom	Broadcom	X	
Vaden	Sterling	Vaden Enterprises	Vaden Enterprises	X	X
Vanderlaan	Paul	Berk-Tek LLC	Berk-Tek LLC	X	X
Wagner	Bob	Panduit Corp.	Panduit Corp.	X	
Wahn	Hazfez	Huawei	Huawei		X
Wang	Roy	Hewlett-Packard	Hewlett-Packard	X	X
Wu	Peter	Marvell	Marvell	X	X
Yu	Jerome	Realtek	Realtek	X	X
Zimmerman	George	CME	Commscope, Aquantia	X	X