

Unconfirmed Meeting Minutes: IEEE P802.3bq 25G/40GBASE-T Task Force
September 14-16, 2015
Bonita Springs, FL, USA
Prepared by Jon Lewis

The IEEE P802.3bq 25/40GBASE-T Task Force meeting convened at 9:04 AM, Monday, September 14, 2015 by David Chalupsky, 802.3bq Task Force Chair

Attendance is listed in Appendix A

ADMINISTRATIVE MATTERS

Presentation: [agenda 3bq 01b 0915.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 3bq 01b 0915.pdf](#) and reviewed the schedule of presentations for the meeting.

Motion #1: Approve the agenda from [agenda 3bq 01b 0915.pdf](#)

M: Jon Lewis

S: Pete Cibula

Approved by voice vote without objection (Procedural > 50%) at 9:22am

Motion #2: Approve the minutes from the July 2015 P802.3bq, and 25GBASE-T SG joint meeting with a modification to correct the agenda title.

M: Jon Lewis

S: George Zimmerman

Approved by voice vote without objection (Procedural > 50%) at 9:24am

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 meeting.

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 **9:40 AM**, Mr. Chalupsky asked if anyone was unfamiliar with the patent policy shown in slides 0 through 4 on the patent policy from [agenda 3bq_01b_0915.pdf](#), none responded. Mr. Chalupsky made the call for potentially essential patents at **9:41 AM**, and none responded. Mr. Chalupsky then completed the reading of slide #4.

Mr. Chalupsky then continued review of the presentation, discussing that the group had entered the “Working Group Ballot” phase where we would be primarily comment driven.

LIAISONS

The Chair moved to liaisons, and noted the Task Force had received two liaisons for 802.3bq from IEC for this meeting.

- [ISO/IEC JTC1 SC25 to IEEE 802.3 on 25GBASE-T](#)
- [ISO/IEC JTC1 SC25 to IEEE 802.3 on 40GBASE-T return loss requirements](#)

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

PRESENTATIONS

The Chair then moved to the presentations for the meeting. (Secretary’s note – where significant group discussion occurred, particularly involving future actions, a summary of any follow-on points is provided. Abstracts are given as a guide to the presentation material, where possible, these are as provided by the authors.)

Ad Hoc Report

Title: P802.3bq Receiver Common Mode Noise Rejection Ad Hoc Report ([P802.3bq Rx CMNR ad hoc report](#))

Abstract: Activities of the P802.3bq Rx CMNR ad hoc are summarized. The ad hoc is working to implement final changes in Annex 113A based on comments received against P802.3bq and P802.3bz and then “hibernating” to address comments received in future ballot(s) as needed.

Presenter: Pete Cibula, Intel, Chair P802.3bq RxCMNR ad hoc

Discussion: No discussion or comments.

Title: 802.3bq Editor’s Report ([zimmerman 3bq_01b_0915.pdf](#))

Abstract: The editor reported on the status and comments received of the draft 2.2, along with a proposed agenda for comment resolution.

Presenter: George Zimmerman, CME Consulting / Aquantia & Commscope, Chief Editor IEEE P802.3bq

Discussion:

The Chief Editor presented his report, including the present status of the draft, a summary of comments received against D2.2.

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 presented the following motion:

Motion #3: Move that the Task Force consider the 15 late comments marked as LATE in the proposed response in

http://www.ieee802.org/3/bq/comments/8023bq_D2p2_Clause_proposed.pdf and the comment on slide 7 of [zimmerman_3bq_01b_0915.pdf](#) along with all other comments by topic.

M: George Zimmerman S: Jon Lewis

Approved by voice vote without objection (Procedural >50%) at 10:12am

Mr. Zimmerman presented the Proposed Comment Resolution Agenda and notified the group that the plan was to introduce the changes 25G requires at the beginning of comment resolution to allow review prior to the end of comment resolution. The Editor then asked the group if there were objections or modifications to the agenda. George noted that Architecture was missing from the list of topics. George corrected this in the latest version of the Editor's report and no other objections or modifications were heard.

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, they do so now. None heard.

COMMENT RESOLUTION

Resolution of comments by consensus or motion is listed in the comment database. Procedural events and significant motions are below.

See comment database for motions regarding comment resolution.

Motion #4: Approve the proposed resolution of all EZ comments, marked with the EZ Topic in

http://www.ieee802.org/3/bq/comments/EZ_8023bq_D2p2_Page_proposed.pdf excepting comment 222.

M: George Zimmerman S: Jon Lewis

Approved by voice vote without objection (Technical >=75%) at 10:19am

Break at 10:24 AM to resume in 20 minutes.

Meeting resumed at 10:53AM

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

At this time, the editor's report was concluded and the Editor moved to review a presentation providing an overview of the changes necessary for inclusion of 25G BASE-T.

Title: Edits to 802.3bq D2.2 to add 25GBASE-T ([zimmerman_3bq_02_0915.pdf](#))

Abstract: The editor provided proposed edits required to add 25GBASE-T to the D2.3.
Presenter: George Zimmerman, CME Consulting / Aquantia & Commscope, Chief Editor IEEE 802.3bq
Discussion: No Discussion.

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

In connection with comments, the following presentations were heard:

Title: "BASE-T Architecture Layers" [bains 3bq 01 0915.pdf](#)
Abstract: This contribution details advantages of the periodic training sequence, in objection to comment 122.
Presenter: Amrik Bains, Cisco
Discussion: No Discussion.

The group decided to postpone resolution of the architecture comments until after lunch to allow commenters to be consulted directly.

The group broke for lunch at 12:35PM to resume at 1:45PM

The meeting resumed at 1:53PM

After asking for additional introductions the meeting resumed comment resolution.

Title: "P802.3bq Rx CMNR ad hoc activity - Annex 113A (Informative)"
[cibula 3bq 02 0915.pdf](#)
Abstract: The contribution summarizes the ad hoc's work on comments received against Clause 113.5.4.3 and/or Annex 113A, including any changes to Annex 113A for P802.3bz which have been commented to 802.3bq. Recent ad hoc activity related to equipment bandwidth, cable clamp calibration, injected signal power measurement and step size and dwell time are reviewed. Specific changes related to comments reviewed in the ad hoc are summarized for use in comment resolution discussions.
Presenter: Pete Cibula, Intel

The group took a short break at 3:38PM to resume at 4:00PM

Meeting resumed at 4:06PM

Comment resolution continued.

Title: "512/513b" [Langner 3bq 01 0915.pdf](#)
Abstract: Related to comment 232
Presenter: Hossein Sedarat, Aquantia for Paul Langner, Aquantia

Straw Poll #1: In favor of the Editor's proposed response to comment 232.

Y: 14
N: 0

A: 9 4:57PM

Motion #5: Motion to accept the proposed response (reject the comment) (Comment 232).

M: George Zimmerman S: Jon Lewis

Yes: 15 No: 0 Abstain: 11 (Technical >=75%) at 4:59pm

Motion passes

The Chair stated that the start time would be 10:00AM Tuesday, September 15, 2015 to allow time for an ad hoc earlier in the morning, and that the start time for P802.3bz would be 2:00PM.

The Meeting was recessed for the day at 6:43PM, Monday, September 14, 2015.

The Meeting was called to order and resumed at 10:04AM Tuesday, September 15, 2015.

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 3bq 01b 0915.pdf](#) and reviewed the schedule of presentations for the meeting.

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 **10:29 AM**, Mr. Chalupsky inquired if there was anyone in the room that was unfamiliar with the IEEE patent policy from [agenda 3bq 01b 0915.pdf](#), none responded. Mr. Chalupsky made the call for potentially essential patents at **10:30 AM**, and none responded. Mr. Chalupsky then completed the reading of slide #4.

The Chair then resumed the review of the agenda presentation and the remaining items open for P802.3bq.

The Editor continued comment resolution.

The Chair moved to the P802.3bq schedule for discussion. It was noted that a February interim off-cycle meeting may be necessary.

Straw Poll #2: I would support a February'16 interim meeting for P802.3bq to advance the draft toward Sponsor Ballot.

Y: 24

N: 1 11:35AM

The Chair asked if there was other business prior to recess. Nothing heard. The Chair then noted that the closing of P802.3bq would be with or after P802.3bz.

The meeting was recessed for the day at 11:41AM, Tuesday, September 15, 2015.

The meeting resumed at 12:07PM Wednesday September 16, 2015.

The Chair then turned the meeting over to George Zimmerman, Chief Editor, to resume comment resolution for those items deferred from Monday.

Motion #6: Instruct editor to accept

http://www.ieee802.org/3/bq/private/8023bq_D2p2_25G.pdf to resolve comment 192 as the basis for d2p3, including 25GBASE-T with:

- Implementation of comment resolution from WG ballot on IEEE P802.3bq d2.2
- Editorial license to correct oversights on slide 11.

M: Jon Lewis S: Pete Cibula

(Technical $\geq 75\%$)

Y: 28 N: 0 A: 0

MOTION PASSES at 12:10 PM

Motion #7: Move to instruct editor to create IEEE P802.3bq D2.3 as described in Motion 6 and closed comments for WG recirculation.

M: Jon Lewis S: Pete Cibula

(Technical $\geq 75\%$)

Y: 25 N: 0 A: 0

MOTION PASSES at 12:16 PM

Having completed the presentations and comment resolution business for the meeting, the Chair reviewed future meeting plans in the agenda presentation.

No further motions of business were offered.

Adjournment

Motion #8: To adjourn the meeting.

M: Jon Lewis S: Clark Carty

MOTION PASSES by voice without opposition

The Meeting was adjourned at 12:53PM, Tuesday, Sept 16, 2015.

Appendix A: Attendees at IEEE P802.3bq Task Force Meeting, September 14-16, 2015

Total attended:	46		Daily # attended:	34	45	29
P802.3bq September'15				9/14/15	9/15/15	9/16/15
Last Name	First Name	Employer	Affiliation	Monday	Tuesday	Wednesday
Abughazaleh	Shadi	Hubbell	Hubbell	X	X	X
Aekins	Rob	Legrand	Legrand	X	X	
Bains	Amrik	Cisco	Cisco	X	X	X
Berglund	Victor	Microsemi	Microsemi		X	X
Brown	Alan	Commscope	Commscope		X	
Calbone	Anthony	Seagate	Seagate		X	
Carty	Clark	Cisco	Cisco	X	X	X
Chalupsky	David	Intel	Intel	X	X	X
Chang	Jacky	HP	HP		X	
Chuang	Keng Hua	HP	HP	X	X	X
Cibula	Pete	Intel	Intel	X	X	X
DiMinico	Christopher	MC Communications	Panduit	X	X	X
Donahue	Curtis	UNH - IOL	UNH - IOL	X	X	
Estes	Dave	Spirent	Spirent	X	X	X
Farjad	Ramin	Aquantia	Aquantia	X	X	X
Feyh	German	Broadcom	Broadcom	X	X	X
Flatman	Alan	LAN Technologies	LAN Technologies	X	X	X
Fritsche	Matthias	Harting	Harting	X		
Hajduczenia	Marek	Bright House Networks	Bright House Networks		X	
Hormmeyer	Bernd	Phoenix Contact	Phoenix Contact	X	X	
Klaus	Andrew	Marvell	Marvell/Jaspar		X	
Klempa	Mike	UNH-IOL	UNH-IOL	X	X	X
Lane	Brett	Panduit	Panduit		X	
Lewis	Jon	Dell	Dell	X	X	X
Lo	William	Marvell	Marvell		X	
Maguire	Valerie	Siemon	Siemon	X	X	X
McClellan	Brett	Marvell	Marvell	X	X	
Moffitt	Bryan	Commscope	Commscope	X	X	X
Nakamoto	Edward	Spirent	Spirent		X	X
Nikolich	Paul	Self	802 Chair		X	
Nordin	Ron	Panduit Corp.	Panduit Corp.	X	X	X
Regev	Alon	Ixia	Ixia	X	X	
Renteria	Victor	Belfuse Inc	Belfuse Inc	X	X	X
Sedarat	Hossein	Aquantia	Aquantia	X	X	X
Shariff	Masood	Commscope	Commscope	X	X	X
Shirani	Ramin	Aquantia	Aquantia	X	X	X
Skaar	Tom	Seagate	Seagate		X	
Souvignier	Tom	Broadcom	Broadcom	X	X	X
Sparrowhawk	Bryan	Leviton	Leviton	X	X	X

Vaden	Sterling	Surtec, Ind.	Vaden Enterprises	X	X	
Valle	Stefano	ST Microelectronics	ST Microelectronics		X	
Vanderlaan	Paul	Berk-Tek LLC	Berk-Tek LLC	X	X	X
Wang	Roy	Hewlett-Packard	Hewlett-Packard	X	X	X
Wang	Hai Fei	Huawei	Huawei	X	X	X
Wu	Peter	Marvell	Marvell	X	X	X
Zimmerman	George	CME	Commscope, Aquantia	X	X	X