Approved Minutes

IEEE P802.3bj 100 Gb/s Backplane and Copper Cable Task Force

Plenary Meeting May 14-16, 2013 Victoria, BC, Canada Prepared by Kent Lusted

Table of Contents

Table of Contents	
IEEE 802.3bj Task Force Meeting – 14 May 2013:	2
IEEE 802.3bj Task Force Meeting – 15 May 2013:	6
IEEE 802.3bj Task Force Meeting – 16 May 2013:	8
Open Action Items:	11
Open Ad Hocs:	12
Attendees	13

IEEE 802.3bj Task Force Meeting – 14 May 2013:

Prepared by Kent Lusted

IEEE P802.3bj Task Force interim meeting convened at 9:00 am, Tuesday, 14 May 2013, by David Law, IEEE 802.3 Chair.

Mr. Law thanks John D'Ambrosia for his work as Chair.

Mr. Law re-appoints Mr. Lusted as Task Force Recording Secretary

Mr. Law intends to appoint Mr. Adam Healey as Task Force Chair.

Motion #1:

Move to confirm Mr. Adam Healey as IEEE 802.3bj 100 Gb/s Backplane and Copper Cable Task Force chair

- M: Mr. John D'Ambrosia
- S: Mr. Wael Diab
- Technical (>=75%)
- Y: 18 N: 0 A: 0
- Motion passes!

Mr. D'Ambrosia welcomes TF members to May interim.

Mr. Healey thanks EA for hosting the interim.

Agenda & General Information

By – Adam Healey

See -- http://www.ieee802.org/3/bj/public/may13/agenda 3bj 01 0513.pdf

- Chair reviewed the agenda.
- Introductions Everyone introduced themselves and stated their affiliation.

Mr. Healey intends to appoint Mr. Matt Brown, as Editor-in-Chief.

Motion 2:

Move to confirm Mr. Matt Brown as Editor-in-Chief, of IEEE 802.3bj 100 Gb/s Backplane and Copper Cable Task Force.

- M: Hugh Barass
- S: Arthur Marris
- Motion passes by voice without opposition.

Motion #3: Move to approve the agenda

- Moved by: Mr. Kent Lusted
- Second by: Mrs. Beth Kochuparambil
- Approved by voice vote without opposition

Chair indicates that March minutes were posted to the web. No correction requests were made.

Motion 4: Move to approve the modified March 2013 minutes

- Moved by: Mr. Kent Lusted
- Second by: Mrs. Beth Kochuparambil
- Approved by voice vote without opposition

Chair asked if there were any members of the press in the room. No one responded.

Chair continued with the introductory presentation.

- Goals for the meeting: respond to comments received in Work Group ballot
- Reminder that draft is posted for attendee review only, not for redistribution.

Chair reminds attendees to sign into IMAT and to sign book. Update affiliation, if necessary.

Chair continued with the introductory presentation.

- Ground Rules were reviewed
- IEEE Structure, Bylaws & Rules

IEEE Patent Policy: Chair reviews the patent policy text on the 4 slides contained in the agenda. Chair calls for potentially essential patents. No one responded. Chair read the Guidelines for IEEE-SA meetings.

Chair gives overview of the 802.3 Standards Process.

Reviewed open action items. Several open action items were closed, see Open Action Items for details.

No communications or liaisons were received.

Reviewed adopted timeline in agenda.

Mr. Healey notes that IEEE P802.3bj Task Force will cover joint 802.3bj/802.3bm material at 5:00pm, 14 May 2013.

Mr. Healey received editorial updates to several posted presentations and will post them.

Presentation #1

Title: Editor's report By – Mr. Matt Brown

See - http://www.ieee802.org/3/bj/public/may13/brown 3bj 01 0513.pdf

Mr. Brown, Chief Editor, announces a list of comments deemed non-controversial to be considered in a bucket motion. Task Force participants should review the list. Notify Mr. Healey or Mr. Brown for comments to be considered outside of the bucket motion.

Comment resolution begins, 9:56 a.m. 14 May 2013.

Break at 10:30 am. Resume at 10:50 am.

Comment resolution resumes.

Task Force will address outstanding comments in Clause 30, 45, 74, 79, 80, 82, 83 at the end of the day.

Break for lunch at 12:01pm. Resume at 1:35 pm.

Comment resolution resumes.

Presentation #2

Title: Suggested changes to COM

By – Mr. Adee Ran

See -- http://www.ieee802.org/3/bj/public/may13/ran_3bj_01_0513.pdf

Clarifying questions were asked and answered.

Presentation #3

Title: In regards to Package Representation Comment Resolution

By – Mr. Liav Ben-Artsi

See -- http://www.ieee802.org/3/bj/public/may13/benartsi 3bj 01 0513.pdf

Mr. Healey requested that Mr. Brown moderate the discussion of Presentation #4.

Presentation #4

Title: Issues with sampling time and jitter in Annex 93A

By – Mr. Adam Healey

See -- http://www.ieee802.org/3/bj/public/may13/healey_3bj_01a_0513.pdf

Clarifying questions were asked and answered.

Comment resolution continues.

Break at 3:15pm. Resume at 3:28pm.

Comment resolution continues.

Action Item: Adee Ran and Brandon Gore to update COM within 2 weeks based on accepted responses to Draft 2.0 comments.

Presentation #5

Title: OTN Mapping for P802.3bj and P802.3bm PMDs

By – Mr. Steve Trowbridge

See - http://www.ieee802.org/3/bj/public/may13/trowbridge_3bj_01_0513.pdf

ITU-T meets 2 weeks prior to July plenary. An informal communication to ITU-T SG15 should be sent to advise them of items that affect the OTN mapping for 40 Gb/s and 100 Gb/s Ethernet interfaces.

Presentation #6

Title: 802.3bj Draft 2.0 Copper Cable Specifications VS COM Simulations

By – Mr. Mike Dudek

See - http://www.ieee802.org/3/bj/public/may13/dudek_3bj_02_0513.pdf

Clarifying questions were asked and answered.

Action Item: Mark Bugg to provide cable channels that fail COM to the task force.

Presentation #7

Title: 802.3bj Draft 2.0 Comment #142 (Frame Error Definition)

By – Mr. Matt Brown

See -- http://www.ieee802.org/3/bj/public/may13/brown_3bj_02_0513.pdf

Clarifying questions were asked and answered.

Break for the day at 6:38pm.

IEEE 802.3bj Task Force Meeting – 15 May 2013:

Prepared by Kent Lusted

IEEE P802.3bj Task Force interim meeting resumed at 9:00 am, Wednesday, 15 May 2013, by Mr. Adam Healey, IEEE P802.3bj Chair.

Comment resolution begins.

Straw Poll #1:

Make the change proposed in the suggested remedy of comment #166? Y: 5 N: 7 No consensus to make the change. See comment database for additional details.

Break at 10:24 am. Resume at 10:44 am.

Presentation #8

Title: Comment 72 By – Mr. Arthur Marris

See -- http://www.ieee802.org/3/bj/public/may13/marris_3bj_01_0513.pdf

Presentation #9

Title: 100GBASE-KP4 transitions to data mode

By – Mr. Kent Lusted

See -- http://www.ieee802.org/3/bi/public/may13/lusted 3bj 01 0513.pdf

Comment resolution continues.

Reminder to sign into IMAT.

Break for lunch at 12:02pm. Resume at 1:37 pm.

Patent Policy: Chair displays patent related slides. Call for patents. No one responded. Chair displays guidelines slides.

Reminder that 802.3bj will meet in Crystal ballroom tomorrow.

No objection to the late presentation benartsi_3bj_02_0513.pdf.

Presentation #10

Title: Cable Host Board representation

By – Mr. Liav Ben-Artsi

See – http://www.ieee802.org/3/bj/public/may13/benartsi_3bj_02_0513.pdf

Presentation #11

Title: TX Jitter specs for Clause 92 and by reference Clause 93

By – Mr. Charles Moore

See - http://www.ieee802.org/3/bj/public/may13/moore_3bj_01_0513.pdf

Break for 3:01 pm. Resume at 3:16 pm.

A list of comments deemed non-controversial will be considered in a bucket motion during closing business. Task Force participants should review the list. Notify Mr. Healey or Mr. Brown for comments to be considered outside of the bucket motion.

Presentation #12

Title: Supporting Material for Comment #161

By – Mr. Jeff Slavick

See - http://www.ieee802.org/3/bj/public/may13/slavick 3bj 01 0513.pdf

Clarifying questions were asked and answered.

Presentation #13

Title: Common Mode and Common Mode to Differential conversion specification in P802.3bj Draft 2.0

By – Mr. Mike Dudek

See -- http://www.ieee802.org/3/bj/public/may13/dudek_3bj_01_0513.pdf

Clarifying questions were asked and answered.

A list of comments deemed non-controversial will be considered in a bucket motion during closing business. Task Force participants should review the list. Notify Mr. Healey or Mr. Brown for comments to be considered outside of the bucket motion.

8:30am start time on Thursday.

Reminder that P802.3bj TF will meet in Crystal ballroom tomorrow.

Break for the day at 7:47pm.

IEEE 802.3bj Task Force Meeting – 16 May 2013:

Prepared by Kent Lusted

IEEE P802.3bj Task Force interim meeting resumed at 8:32 am, Thursday, 16 May 2013, by Mr. Adam Healey, IEEE P802.3bj Chair.

Patent Policy: Chair displays patent related slides. Call for patents. No one responded. Chair displays guidelines slides.

A list of comments deemed non-controversial will be considered in a bucket motion during closing business. Task Force participants should review the list. Notify Mr. Healey or Mr. Brown for comments to be considered outside of the bucket motion by lunch break today.

Comment resolution resumes.

Presentation #13

Title: Simplified AM Sync Up

By – Mr. Mark Gustlin

See -- http://www.ieee802.org/3/bj/public/may13/gustlin 3bj 01a 0513.pdf

Presentation from Mark Gustlin is updated with new content -- No objection from the room. Updated presentation will be posted to TF website. Clarifying questions were asked and answered.

Straw Poll #2:

Make the changes recommended on slide 5 of gustlin_3bj_01a_0513.pdf. Y: 16 N: 2. Chair observes that there is more than 75% consensus to make the change. See comment #153 in comment database for additional details.

Presentation #14:

Title: COM based ITOL spec for 100GBASE_KR4

By - Mr. Charles Moore

See - http://www.ieee802.org/3/bj/public/may13/moore_3bj_02_0513.pdf

Reminder for IMAT and to sign the attendance book. Update affiliation, if incorrect.

Break at 10:30 am. Resume at 10:55 am.

Participants interested in discussing comment #240 should contact Mr. Piers Dawe.

Review of bucket comments that were requested to be evaluated by the Task Force:

- #105
- #168
- #97
- #145
- #141

Review of late comment #252.

Reminder for IMAT and to sign the attendance book. Update affiliation, if incorrect.

A list of comments deemed non-controversial will be considered in a bucket motion during closing business. Task Force participants should review the list. Notify Mr. Healey or Mr. Brown for any other comments to be considered outside of the bucket motion after lunch break.

Review of closing business plan:

- Review of informal communication to ITU-T on OTN mapping.
- Motion for next draft

Break at 11:56 am. Resume at 1:38 pm.

Reminder for IMAT and to sign the attendance book. Update affiliation, if incorrect.

No other requests for comments to be pulled from the bucket motion were received by the Chair.

Review of informal communication to ITU-T Study Group 15 on EEE and RS-FEC. http://www.ieee802.org/3/bj/public/may13/trowbridge_3bj_02_0513.pdf

Motion #5: 2:01pm

Move to:

- Adopt proposed responses to remaining "non-controversial" comments as indicated in brown 3bj 01 0513.pdf
- Generate Draft 2.1 for WG recirculation from Draft 2.0 and closed comments
- M: C. Moore
- S: M. Dudek
- Technical (>= 75%)
- Y: 24, N: 0, A: 0
- Result: PASS

Motion #6 2:03pm

Move that IEEE P802.3bj Task Force approve the text in trowbridge_3bj_02_0513.pdf, with editorial license granted to the Chair (or his appointed agent) as an informal communication to ITU-T Study Group 15.

- M: S. Trowbridge
- S: B. Misek
- Technical (>= 75%)
- Y: 24, N: 0, A: 0
- Result: PASS

Future Meetings

- See: http://www.ieee802.org/3/interims/index.html
- July 2013 Plenary
 - Week of July 14
 - Location: Geneva, CH
- Sept 2013 Interim (hosted by ADVA)
 - Week of Sept 2
 - York, UK
- Nov 2013 Plenary
 - Week of Nov 10
 - Dallas, TX, USA

Anyone interested in hosting a meeting should contact the Chair.

Completion of Agenda.

Motion #7:

Move to adjourn.

- M: M. Dudek
- S: A. Ran
- Passes by voice without opposition.

Meeting ends at 2:06pm.

Open Action Items:

Volunteer	Action	Date Assigned	Status
Merrick Moeller	Provide updated CFP4 simulation results at next meeting	7/17/2012	Closed, 14 May 2013
Task Force Channel Submitters	Compare diff return loss of target channels against informative limit for Cl 93 and Cl 94.	25 September 2012	Closed, 14 May 14, 2013
Task Force Channel Submitters	Correlate their submitted channels against informative channel models and COM results.	26 September 2012	Ongoing
Rich Mellitz	Update COM within 2 weeks based on accepted responses to Draft 1.3 comments.	22 January 2013	Closed, 8 Feb 2013
John D'Ambrosia, Adam Healey	Discuss comment #210 with 802.3 maintenance chair.	22 January 2013	Closed
Mark Bugg	Send link to presentation from which the worst case S-parameters came from.	23 January 2013	Closed
Adee Ran, Brandon Gore	Update COM within 2 weeks based on accepted responses to Draft 2.0 comments.	14 May 2013	Open
Mark Bugg	Provide cable channels that fail COM to the task force.	14 May 2013	Open

Open Ad Hocs:

Volunteer	Action	Date	Status
Charles Moore, Mike Dudek	Run ad hoc to provide proposal with complete characteristics and parameters in Table 94-7, of Draft 1.1 for submission against draft 1.2	Assigned 25 September 2012	closed
	Run ad hoc for RX tests for all 3 PMDs.	22 January 2013	Open
Chris Diminico	Run ad hoc to harmonize electrical cable and transmitter parameters for Clause 92.	26 September 2012	Ongoing
Kent Lusted, Adee Ran, Matt Brown	Run ad hoc which defines suitable pattern, methodology, and values for 100GBASE-KP4 TX.	25 September 2012	Closed, 14 May 14, 2013
Rich Mellitz, Liav Ben- Artsi	Run ad hoc to resolve return loss in P802.3bj	15 November 2012	Closed, 14 May 14, 2013

Attendees

IEEE 802.3bj 100Gb/s Cu & BP TF, May 2013 interim			14-May- 13	15-May-13	16-May-13
Last Name	First Name	Affiliation	Tuesday	Wednesday	Thursday
Abbas	Ghani	Ericsson, UK			Х
Anslow	Pete	Ciena Corporation			Х
Baldwin	Thananya	Ixia			Х
Barrass	Hugh	Cisco	Х	х	Х
Bates	Stephen	PMC Sierra			Х
Ben-Artsi	Liav	Marvell	Х	х	Х
Bliss	Will	Broadcom			Х
Brown	Matt	Applied Micro	Х	х	Х
Bugg	Mark	Molex	Х		Х
Casher	Patrick	Molex		х	Х
Conroy	Keith	MultiPHY			Х
D'Ambrosia	John	Dell	Х	х	
Dawe	Piers	IPtronics		Х	
Dudek	Mike	QLogic	Х	х	Х
Erba	Simone	ST Microelectronics	Х	х	Х
Ghiasi	Ali	Broadcom	х	х	Х
Gore	Brandon	Intel	Х	х	Х
Gustlin	Mark	Xilinx			Х
Healey	Adam	LSI	Х	х	Х
Holden	Brian	Kandou Bus	Х	х	Х
Irwin	Scott	MoSys Inc.			Х
Kochuparambil	Elizabeth	Cisco Systems	Х	х	Х
Li	Mike	Altera			Х
Liu	Zhenyu	Marvell Semiconductor	Х	х	Х
Lusted	Kent	Intel	Х	х	Х
Malkiman	Yonatan	Mellanox			Х
Marris	Arthur	Cadence	Х	Х	Х
Misek	Brian	Avago Technologies			Х
Moore	Charles	Avago Technologies	Х	Х	Х
Moorwood	Andy	Infinera Corp			Х
Muth	Karl	Texas Instruments			Х
Nolan	John	Qlogic	Х	Х	Х
Ofelt	David	Juniper Networks			Х
Parthasarathy	Vasudevan	Broadcom	Х	Х	
Patel	Pravin	IBM		х	Х
Pepper	Gerald	Ixia			Х
Rabinovich	Rick	Alcatel-Lucent	Х	Х	
Ran	Adee	Intel	Х	Х	х
Sambasivan	Sam	AT&T			х
Shanbhag	Megha	TE Connectivity	Х	х	Х

IEEE 802.3bj 100Gb/s Cu & BP TF, May 2013 interim		14-May- 13	15-May-13	16-May-13	
Last Name	First Name	Affiliation	Tuesday	Wednesday	Thursday
Slavick	Jeff	Avago Technologies		х	Х
Sommers	Scott	Molex	х	Х	
St. Peter	Matthew	Radisys			Х
Szczepanek	Andre	Inphi			Х
Trowbridge	Steve	Alcatel-Lucent			Х
Walker	Clinton	Intel	х	Х	Х
Zambell	Andrew	FCI	х	Х	Х
Zivny	Pavel	Tektronix	х	Х	Х
Wang	Robert	Intel	х		Х
Wertheim	Oded	Mellanox	Х	х	Х