

**Unapproved Minutes**

**IEEE P802.3bj 100 Gb/s Backplane and Copper Cable Task Force**  
Interim Meeting  
September 24-26, 2012  
Geneva, Switzerland

Prepared by Kent Lusted (802.3bj Task Force, Mon-Wed) & John D'Ambrosia (EEE Ad Hoc, Mon-Tues)  
& Adam Healey (FEC Ad Hoc, Tues)

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**IEEE 802.3bj Task Force Meeting – 24 September 2012:**

*Prepared by Kent Lusted*

IEEE P802.3bj Task Force interim meeting convened at 8:53am, Monday, September 24, 2012 by John D'Ambrosia, IEEE P802.3bj Chair.

**Agenda & General Information**

By – John D'Ambrosia

See -- [http://www.ieee802.org/3/bj/public/sep12/agenda\\_3bj\\_01b\\_0912.pdf](http://www.ieee802.org/3/bj/public/sep12/agenda_3bj_01b_0912.pdf)

- Chair reviewed the agenda.
- Chair asked if there were any reporters in the room. No one responded.
- Introductions – Everyone introduced themselves and stated their affiliation.

**Motion #1:** motion to approve the agenda

- Moved by: Steve Trowbridge
- Second by: Bengt Kvist
- Approved by voice vote without opposition

**Motion #2:** Motion to approve the July 2012 minutes

- Moved by: Mike Dudek
- Second by: Mark Gustlin
- Approved by voice vote without opposition

Chair continued with his introductory presentation

- Goals for the meeting: D1.1 comment resolution, Big Ticket items, request working group ballot next meeting, lay the groundwork for D1.2 and next meeting.
- Ground Rules were reviewed
- IEEE Structure, Bylaws & Rules

**IEEE Patent Policy:** Chair reads aloud the patent policy text on the 4 slides contained in the agenda. Chair calls for potentially essential patents. No response.

Chair read the Guidelines for IEEE-SA meetings. No response.

Chair gives overview of the 802.3 Standards Process. Reviews the project objectives and adopted timeline.

Review of Action Items from July'12 meeting. All recorded action items, except Moeller's updated CFP4 simulations results have been completed at this time. (Updated simulation results targeted for next meeting.) Chair reviewed Task Force project documents. PAR was updated and new issues arose, but dependent on IEEE tool getting fixed.

Chair reviewed process for going to Working Group ballot.

9:21 a.m. Chair gives control of the Task Force meeting to Adam Healey, Chief Editor, for comment resolution.

Chief Editor reviews the procedure for recording attendance. Recent change to the tool no longer queries for affiliation at each meeting. Please make sure affiliation is correct; it is a requirement to maintain voting rights.

**Presentation #1**

Title: Editor's report

By – Adam Healey

See – [http://www.ieee802.org/3/bj/public/sep12/healey\\_3bj\\_01\\_0912.pdf](http://www.ieee802.org/3/bj/public/sep12/healey_3bj_01_0912.pdf)

Discussion: Clarifying questions were discussed regarding the presentation. Chief Editor notes that there are ~140 comments deemed to be non-controversial items by the editorial team which are grouped for a bucket motion and everyone should review them prior to the bucket motion. Chief Editor reserves the right to limit discussion as necessary due to the number of comments and time limitations.

9:42 a.m. comment resolution begins

Chair reminds everyone to sign attendance book and IMAT.

Task Force breaks at 10:42 a.m., resume at 11:08 a.m.

Ad hoc appointed to resolve EEE related comments against Draft 1.1. Hugh Barrass is the EEE Ad Hoc Chair.

Chief Editor announces that EEE ad hoc comment resolution session will start after lunch.

Comment resolution resumes.

### **Presentation #2**

Title: 100GBASE-CR4/KR4/KP4 Receiver Performance Target

By – Matt Brown

See - [http://www.ieee802.org/3/bj/public/sep12/brown\\_3bj\\_02\\_0912.pdf](http://www.ieee802.org/3/bj/public/sep12/brown_3bj_02_0912.pdf)

Discussion: Clarifying questions were discussed regarding the presentation.

Chair announces that all updated presentations received to date have been posted to the web.

### **Presentation #3**

Title: Frame Error Rate

By – Roy Cideciyan

See - [http://www.ieee802.org/3/bj/public/sep12/cideciyan\\_3bj\\_01a\\_0912.pdf](http://www.ieee802.org/3/bj/public/sep12/cideciyan_3bj_01a_0912.pdf)

Discussion: Clarifying questions were discussed regarding the presentation. Discussion on MAC frame error rate targets and relationship to bit error rate.

Task Force breaks for lunch at 12:22 p.m. Resume at 1:34 p.m.

Comment resolution continues.

EEE Ad hoc will meet in Room K2 at 2:20 p.m. Order of comment resolution for this track will be as specified in the editor's report.

### **Presentation #4:**

Title: 100GBASE-KR4 and 100GBASE-CR4 PMD Control

By – Kent Lusted

See -- [http://www.ieee802.org/3/bj/public/sep12/lusted\\_3bj\\_02\\_0912.pdf](http://www.ieee802.org/3/bj/public/sep12/lusted_3bj_02_0912.pdf)

Discussion: Clarifying questions were discussed regarding the presentation

**Presentation #5:**

Title: Channel Qualification Based on Salz

By – Albert Vareljian

See - [http://www.ieee802.org/3/bj/public/sep12/vareljian\\_3bj\\_01\\_0912.pdf](http://www.ieee802.org/3/bj/public/sep12/vareljian_3bj_01_0912.pdf)

Discussion: Clarifying questions were discussed regarding the presentation.

Task Force breaks at 3:57 p.m. Resume at 4:12 p.m.

Comment resolution continues.

**Presentation #6:**

Title: Package Modeling and Return Loss Limits

By: Liav Ben-Artzi

See - [http://www.ieee802.org/3/bj/public/sep12/benartzi\\_3bj\\_02\\_0912.pdf](http://www.ieee802.org/3/bj/public/sep12/benartzi_3bj_02_0912.pdf)

Discussion: Clarifying questions were discussed regarding the presentation. Discussion on package model assumptions.

**Presentation #7:**

Title: Return Loss Measurement Consensus Group Meetings Summary

By: Liav Ben-Artzi

See - [http://www.ieee802.org/3/bj/public/sep12/benartzi\\_3bj\\_01\\_0912.pdf](http://www.ieee802.org/3/bj/public/sep12/benartzi_3bj_01_0912.pdf)

Discussion: Clarifying questions were discussed regarding the presentation.

Chair reminds the Task Force that participants should bring complete proposals to comment resolution and not craft them on the floor in order to expedite the comment resolution process.

Chief Editor notes that 146 comments listed in the editor report will be covered in a series of bucket motions. Contact chief editor for bucketed comments which need to be considered separately.

802.3bj Task Force main meeting breaks for the day at 8:52 p.m., 24 September 2012.

**IEEE 802.3bj Task Force EEE Ad Hoc Meeting – 24 September 2012:**

*Prepared by John D'Ambrosia*

EEE Ad Hoc Attendees:

Hugh Barrass Ad Hoc Chair

John D'Ambrosia

Mark Gustlin

Ryan Latchman

David Ofelt

Oren Sela

Arthur Marris

Time Started: Monday 1/24, approximately 2:15 p.m.

Comment Resolution on EEE related comments.

Ad hoc wanted feedback from Task Force on Comment #96 & related comments before resolving.

EEE Ad Hoc breaks at 4:30 p.m. Reconvened at 4:45 p.m.

Comment resolution continues.

EEE Ad Hoc breaks for day approximately 5:30 p.m.

## **IEEE 802.3bj Task Force Meeting – 25 September 2012:**

*Prepared by Kent Lusted*

Chair calls meeting to order 8:45 a.m. 25 September 2012.

Chair review the agenda for the day. See

[http://www.ieee802.org/3/bj/public/sep12/agenda\\_3bj\\_01b\\_0912.pdf](http://www.ieee802.org/3/bj/public/sep12/agenda_3bj_01b_0912.pdf)

Chair displays the patent slides. Chair calls for any potentially essentially patents. Nobody responded.

Chair asks everyone to limit discussion to clarifications to the topic and focus on getting to the proposed response.

Comment resolution resumes.

Chief Editor provided an overview of the EEE ad hoc meeting held yesterday. Most comments were resolved. A few comments were passed back to the Task Force for the larger audience input.

EEE Ad Hoc Chair, Hugh Barrass, reviewed comment #96 in the Task Force.

**Straw poll #1:** If EEE supported, support both modes required? Additional details recorded in database, see comment #96. Favors Fast Wake mandatory, quiescent mode optional.

Chief Editor would like to resolve all comments at this Task Force meeting.

Ad hoc appointed to resolve FEC comments against Draft 1.1. Adam Healey will chair.

Chief Editor announces FEC ad hoc this afternoon after the EEE ad hoc completes and checks for conflicts. Just one conflict noted in the room. Chief Editor recognizes the conflict and will try to accommodate. FEC ad hoc will start after lunch in room K2 and will be run by Adam Healey. Main Task Force comment resolution will be run by Chair and Clause 94 editor, Matt Brown.

Chair notes that both ad hocs (EEE and FEC) will have summary reports posted tonight and members are to review.

Hugh Barrass announces EEE Ad Hoc meeting will resume at 9:15 a.m. in room K2 to finish comment resolution.

Chair reminds presenters to send any updated presentations for posting.

**Presentation #8:**

Title: Error Propagation Effect on FEC Performance

By: Rich Mellitz

See - [http://www.ieee802.org/3/bj/public/sep12/mellitz\\_3bj\\_03\\_0912.pdf](http://www.ieee802.org/3/bj/public/sep12/mellitz_3bj_03_0912.pdf)

Discussion: Clarifying questions were discussed regarding the presentation. The wtx in the presentation is for PAM4. Discussion on error propagation. Discussion on operation of COM.

**Presentation #9:**

Title: 100GBASE-KP4 Channel Characteristics (comment #363)

By: Adam Healey for Beth Kochuparambil (absent)

See – [http://www.ieee802.org/3/bj/public/sep12/kochuparambil\\_3bj\\_01\\_0912.pdf](http://www.ieee802.org/3/bj/public/sep12/kochuparambil_3bj_01_0912.pdf)

Discussion: Liav Ben-Artzi has been working with Beth Kochuparambil on refining the proposal and recommends adopting presentation values for now. Chief Editor reminds the Task Force that informative specifications should be correlated with COM.

Discussion on either removing informative channel specs in Clause 94 or provide supporting evidence to substantiate it.

Chair reminds to sign the attendance book and IMAT.

Task Force breaks at 10:15 a.m. Resume at 10:32 a.m.

Comment resolution continues.

**Presentation #10:**

Title: 100GBASE-KP4 jitter and distortion specification proposal (comment #255)

By: Adeel Ran

See – [http://www.ieee802.org/3/bj/public/sep12/ran\\_3bj\\_01a\\_0912.pdf](http://www.ieee802.org/3/bj/public/sep12/ran_3bj_01a_0912.pdf)

Discussion: Clarifying questions were discussed regarding the presentation. Discussion on values listed in presentation as reasonable.

Chair reminds the Task Force that proposals with TBD values prevent the creation of a working group review draft. No TBD values can be in working group draft. Consider using placeholder values and note them as placeholders.

Chair reminds Task Force to sign the attendance book and IMAT.

Chair reminds Task Force that no food or drinks can be in the room.

Chief Editor announces FEC ad hoc this afternoon. FEC ad hoc will start after lunch in K2 and will be run by Adam Healey. Main Task Force resolution will be run by Chair and Clause 94 editor, Matt Brown.

Chair posted updated presentations to the webpage, at the bottom. Zipfile is not updated yet due to the file size and upload time.

Chair has posted the COM tool and instructions to the webpage for the meeting. Before he posts to the tools page, he would like Task Force input. Chair asks Task Force to review COM tool and instructions and provide feedback.

Chief Editor states that consensus building presentation brown\_3bj\_03\_0912 will supersede farhoodfar\_3bj\_01\_0912, bliss\_3bj\_01\_0912.

**Presentation #11:**

Title: 100GBASE-KP4 full termination block encoding (comment #10080)

By – Matt Brown

See – [http://www.ieee802.org/3/bj/public/sep12/brown\\_3bj\\_03\\_0912.pdf](http://www.ieee802.org/3/bj/public/sep12/brown_3bj_03_0912.pdf)

Discussion: Clarifying questions were discussed regarding the presentation.

Task Force breaks for lunch at 12:07 p.m. Resume at 1:13 p.m.

Comment resolution continues.

Chief Editor will chair the FEC Ad Hoc in room K2.

Chair posted the EEE Ad Hoc resolved comments before lunch and requests review by Task Force.

**Presentation #12:**

Title: 100GBASE-KP4 link training summary (comment #38)

By – Kent Lusted

See – [http://www.ieee802.org/3/bj/public/sep12/lusted\\_3bj\\_03a\\_0912.pdf](http://www.ieee802.org/3/bj/public/sep12/lusted_3bj_03a_0912.pdf)

Discussion: Clarifying questions were discussed regarding the presentation.

Lusted\_03bj\_01\_0912 is the supporting material referenced in this presentation. Chair asked if anyone wanted to see the lusted\_03bj\_01\_0912 presentation; no one responded.

**Presentation #13:**

Title: EEE ALERT Signal for 100GBASE-KP4 (comment #39 and #10234)

By: Matt Brown

See - [http://www.ieee802.org/3/bj/public/sep12/brown\\_3bj\\_01\\_0912.pdf](http://www.ieee802.org/3/bj/public/sep12/brown_3bj_01_0912.pdf)

Discussion: Clarifying questions were discussed regarding the presentation.



Chair reminds everyone to complete IMAT.

**ACTION ITEM:** Chair assigns Charles Moore and Mike Dudek to 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. (See comment #10110 in comment database for additional information.)

Chair will address the topic of ad hocs in the closing business tomorrow.

**ACTION ITEM:** Chair assigns Kent Lusted, Matt Brown and Adee Ran to run ad hoc which defines suitable pattern, methodology, and values for 100GBASE-KP4 transition time. (See comment #368 in comment database).

Task Force breaks at 3:15 p.m. Resume at 3:30 p.m.

**ACTION ITEM:** Chair assigns Task Force channel submitters to compare diff return loss of target channels against informative limit for CI 93 and CI 94.

Comment resolution continues.

Task Force breaks at 5:24 p.m. Resume at 5:42 p.m.

Chair states that comment resolution of Clause 93 will continue today until done.

Chair reminds Task Force to complete IMAT.

Chief Editor and FEC ad hoc members return to main Task Force meeting at 6:28 p.m.

**Presentation #14:**

Title: Measured interference tolerance and recommended Clause 93 spec. (comment #10078 and comment #10088)

By: Charles Moore

See - [http://www.ieee802.org/3/bj/public/sep12/moore\\_3bj\\_01\\_0912.pdf](http://www.ieee802.org/3/bj/public/sep12/moore_3bj_01_0912.pdf)

Discussion: Clarifying questions were discussed regarding the presentation.

**Straw poll #2:** 7:31 p.m.

Should a minimum VMA specification be defined? Results recorded in database in comment #10145, lack of consensus to change.

**Straw poll #3:** 7:46 p.m.

Do you support suggested remedy? Results recorded in database in comment #321, lack of consensus to implement suggested remedy.

Chair has posted the FEC ad hoc reports and requests review by Task Force.

Chief Editor notes that bucket-worthy comments listed in the editor report will be covered in a series of bucket motions. Contact chief editor for bucketed comments which need to be considered separately.

**Straw poll #4:** 8:24 p.m.

Organize clause 92.8.3.3 consistent with 93.8.1.6? Results recorded in database in comment #492, in favor of change.

Chair announces that all presentations received as well as FEC and EEE ad hoc reports are posted to the web. Also, zip file has been updated and posted.

Chair reminds audience that meeting starts at 8:30am on Wednesday.

Task Force main meeting broke for the day at 8:47 p.m., 25 September 2012.

**IEEE 802.3bj Task Force EEE Ad Hoc Meeting – 25 September 2012:**

*Prepared by John D'Ambrosia*

Reconvened Tuesday at approximately 9:20 a.m.

Comment resolution of EEE Related comments.

EEE Ad Hoc meeting time ended approximately 10 a.m.

**IEEE 802.3bj Task Force FEC Ad Hoc Meeting – 25 September 2012:**

*Prepared by Adam Healey*

FEC Ad Hoc Attendees:

Adam Healey (Ad Hoc Chair)

Mark Gustlin

Martin Langhammer

Roy Cideciyan

Andre Szczepanek

Arthur Marris

Oren Sela

Steve Trowbridge

Gary Nichol

Time Started Tuesday, 25 September, approximately 1:30 p.m.

Comment Resolution of FEC related comments

FEC Ad Hoc Ended – Tuesday 25 September, approximately 6:00 p.m.

## **IEEE 802.3bj Task Force Meeting – 26 September 2012:**

*Prepared by Kent Lusted*

Chair calls Task Force meeting to order 8:36 a.m., 26 September 2012.

Chair displays the patent slides. Chair calls for any potentially essentially patents. Nobody responded.

Chair reminds Task Force to sign attendance book and IMAT.

Chair turns meeting over to Chief Editor for comment resolution.

Chair states that Chris Diminico's updated presentation diminico\_3bj\_01a\_0912.pdf is in the updated zip file. The separate file directly posted to the web is incorrect and will be updated momentarily.

Chair confirms that the Diminico update is now posted to the web.

Comment resolution continues.

**Straw poll #5:** 9:22 a.m.

Replace the TBDs with values proposed in diminico\_3bj\_01a\_0912, slide 4. See comment #286 in comment database for details. Favors replace.

**Straw poll #6:** 9:50 a.m.

Set TBD values in Table 92-8 to diminico\_3bj\_01a\_0912, slide 6? See comment #275 in comment database for details. Favors using values.

**Straw Poll #7:** 10:12 a.m.

Replace equation 92-32 with diminico\_3bj\_01a\_0912, slide 10? See comment #285 in database for details. Favors replacement.

**ACTION ITEM:** Chair assigns Chris Diminico to run ad hoc to harmonize electrical cable and transmitter parameters for Clause 92.

Task Force breaks at 10:25 a.m. Resume at 10:42 a.m.

Comment resolution resumes.

**Straw Poll #8:** 11:01 a.m.

Change the common mode voltage to single-ended output voltage with limit of -0.3 V (min) to 4 V (max)? See comment #447 in comment database for details. Favors the change.

**Straw Poll #9:** 11:10 a.m.

After discussion, do a recount of straw poll #8. Same question. See comment #447 in comment database for details. Does not favor change.

11:31 a.m.: Chair intends to make a straw poll before lunch. Please stay.

Comment resolution continues.

**Straw Poll #10:** 11:36 a.m.

Delete unit interval row from Table 92-7? See comment #10169 in database for details. Does not favor change.

Chief Editor notes that ~40 comments remain open.

Chair reminds Task Force that a 5 p.m. end time for the meeting is in the agenda but would like to check for flexibility. Conflicts were observed with the 802.3bm meeting overlap.

Chief Editor and Chair intend to process bucket items in closing business at the end of the day.

Chief Editor states that he has not received to requests to pull a comment from the bucket motion.

Chair and Chief Editor have not received any comments on the posted EEE and FEC ad hoc reports.

Task Force breaks for lunch at 12:05 p.m. Resume at 1:14 p.m.

Chair notes that he talked with 802.3bm Acting Chair, Dan Dove, regarding the afternoon schedule for the 802.3bm project to minimize overlap with 802.3bj attendees. Dan agreed to push CAUI-4 focused presentations to Thursday.

**Straw Poll #11** 2:40 p.m.

Which Host mated CR4 fixture mated insertion loss to use? See comment #284 in database for details. Favors Ghiasi proposal.

**Straw Poll #12:** 2:45 p.m.

TP2/TP3 test fixture loss either HCB\_Loss2dB (ghiasi\_3bj\_01a\_0912, slide 7) or Diminico\_3bj\_01a\_0912 (slide 12) or no change? See comment #277 in database for details. Favors HCB\_loss2dB.

**Straw Poll #13:** 2:58 p.m.

Change host to Host\_RLprop in ghiasi\_3bj\_01a\_0912, slide 9? See comment #273 in database for details. Favors change.

**Straw Poll #14:** 3:09 p.m.

Adopt SDD21\_Max2dB on Ghiasi\_03bj\_01a\_0912 slide 9 for mated insertion loss? See comment #278 in comment database for details. No consensus to adopt it.

**ACTION ITEM: Ali Ghiasi to send updated presentation ghiasi\_3bj\_01a\_0912.pdf to Chair for posting to web. (Chair and Chief Editor requests the new slide at the end) Done**

Chair requests to take picture for historical records. No objections were heard.

Comment resolution continues.

Chief Editor calls for comments on bucket motion, FEC ad hoc report, and EEE report which should be considered separately. Exceptions were:

- Comment #174 was considered. Clarifying questions were asked and answered.
- Comment #454 was considered. Clarifying questions were asked and answered.

Consensus is not to pull #174 and #454 from the bucket motion, FEC ad hoc report, and EEE report.

Task Force breaks at 4:43 p.m., resume at 5:00 p.m.

Chair reviews [http://www.ieee802.org/3/bj/public/sep12/dambrosia\\_3bj\\_01\\_0912.pdf](http://www.ieee802.org/3/bj/public/sep12/dambrosia_3bj_01_0912.pdf).

Chair notes that to go to working group ballot that no technical issues can be open in the draft. Chair is revisiting 802.3bj schedule for Task Force discussion and will bring final proposal schedule to next meeting. Editorial team does not think that Timeline #1 is realistic given the trend of comment resolution. Timeline #2 is also challenging but likely to be more realistic. Task Force should use the time to improve the quality of the document.

Chair discusses ad hocs within P802.3bj. When an individual announces a conference call or meeting on the reflector, it needs to follow IEEE rules. It is indemnified by the IEEE if official Task Force business, such as an appointed ad hoc. The Chair will make use of Task Force ad hocs in the future.

Chair is working with Wael Diab to expand the size of attachments on the reflector.

Chief Editor has not had time to estimate the schedule for Draft 1.2. He will send a note to the reflector for notification.

Chair thanks the editorial team and the reviewers for their hard work.

**Motion #3:** 5:28 p.m.

Move to:

- Adopt proposed responses for “non-controversial” comments as indicated in healey\_3bj\_01\_0912
- Generate Draft 1.2 from Draft 1.1 and closed comments
- Initiate third Task Force review

M: A. Healey

S: R. Mellitz

Technical (> 75%)

Y: 24, N: 0 , A: 1

Results: Passes 5:31 p.m. 26 September 2012

Secretary reviews open action items. No questions.

Discussion on how to track the COM work in the Task Force.

**ACTION ITEM: Chair asks channel submitters to correlate their submitted channels against informative channel models and COM results.**

Rich Mellitz notes that the COM tool will be updated based on feedback and will be distributed to the Task Force. Current tool is available on the September meeting webpage. A revision document for COM is suggested.

Chair reviews future meetings.

Chair thanks ITU for hosting.

**Motion #4**

Move to adjourn:

M: Oren Sela

S: Mike Li

Aye vs. Nay. Voice vote indicated opposition. Chair rules Ayes are the majority.

Task Force adjourns at 5:43 p.m., 26 September 2012



**July 2012 Action Items:**

Volunteer	Action	Date Assigned	Status
Merrick Moeller	Provide updated CFP4 simulation results at next meeting	7/17/2012	

**September 2012 Action Items:**

Volunteer	Action	Date Assigned	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	25 September 2012	Open
Kent Lusted, Adee Ran, Matt Brown	Run ad hoc which defines suitable pattern, methodology, and values for 100GBASE-KP4 transition time.	25 September 2012	Open
Task Force Channel Submitters	Compare diff return loss of target channels against informative limit for CI 93 and CI 94.	25 September 2012	Open
Chris Diminico	Run ad hoc to harmonize electrical cable and transmitter parameters for Clause 92.	26 September 2012	Open
Ali Ghasi	<del>send updated presentation ghiasi_3bj_01a_0912.pdf to Chair for posting to web.</del>	26 September 2012	<del>Closed, 27 September 2012</del>
Task Force Channel Submitters	Correlate their submitted channels against informative channel models and COM results.	26 September 2012	Open

**Attendee List:**

			# attended:	69	65	62
<b>IEEE 802.3bj 100Gb/s Cu &amp; BP TF, Sept 2012 Interim</b>			24-Sep-12	25-Sep-12	26-Sep-12	
Last Name	First Name	Affiliation	Monday	Tuesday	Wednesday	
Abbas	Ghani	Ericsson, UK	x	x	x	
Amlashi	Peerouz	Molex	x	x	x	
Anslow	Pete	Ciena Corporation	x		x	
Barnett	Barry	IBM	x	x	x	
Barrass	Hugh	Cisco	x	x	x	
Ben-Artzi	Liav	Marvell	x	x	x	
Bennett	Mike	LBNL			x	
Bliss	Will	Broadcom		x	x	
Braun	Ralf-Peter	Deutsche Telekom, T-Systems	x	x	x	
Brown	Matt	Applied Micro	x	x	x	
Bugg	Mark	Molex	x	x	x	
Carroll	Martin	Verizon	x	x		
Casher	Patrick	Molex	x	x	x	
Chen	Qi	Lorom Group	x	x	x	
Cideciyan	Roy	IBM	x	x	x	
Cole	Chris	Finisar	x	x		
Crepin	J Francois	Akros Silicon	x			
D'Ambrosia	John	Dell	x	x	x	
Dawe	Piers	IPtronics	x	x	x	
De Barnardinis	Fernando	Marvell	x	x	x	
De Geest	Jan	FCI	x	x	x	
Diab	Wael	Broadcom			x	
DiMinico	Christopher	MC Communications/Leoni	x	x	x	
Dudek	Mike	QLogic	x	x	x	
Elbakouny	Hersharon	Huawei			x	
Erba	Simone	ST Microelectronics	x	x	x	
Farhoodfar	Arash	Cortina Systems	x	x	x	
Ghiasi	Ali	Broadcom	x	x		
Gustlin	Mark	Xilinx	x	x	x	
Hajduczenia	Marek	ZTE			x	
Hamano	Hiroshi	Fujitsu Labs	x	x	x	
Healey	Adam	LSI	x	x	x	
Hidaka	Yasuo	Fujitsu Lab of America	x	x	x	
Holden	Brian	Kandou Bus	x	x	x	
Isono	Hideki	Fujitsu Optical Components	x	x		
Kawamoto	Takahashi	Hitachi	x	x		
Kimmit	Myles	Emulex		x	x	
King	Jonathan	Finisar Corp.	x			

			# attended:	69	65	62
<b>IEEE 802.3bj 100Gb/s Cu &amp; BP TF, Sept 2012 Interim</b>			24-Sep-12	25-Sep-12	26-Sep-12	
<b>Last Name</b>	<b>First Name</b>	<b>Affiliation</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	
Kvist	Bengt	Ericsson	x	x	x	
Langhammer	Martin	Altera		x	x	
Latchman	Ryan	Mindspeed	x		x	
Law	David	HP			x	
LeCheminant	Greg	Agilent Technologies	x	x	x	
Li	Mike	Altera	x	x	x	
Lusted	Kent	Intel	x	x	x	
Maki	Jeffery	Juniper Networks	x			
Marris	Arthur	Cadence	x	x	x	
McDonough	John	NEC America	x	x	x	
Meghelli	Mounir	IBM	x	x		
Meier	Wolfgang	Emerson Network Power EC	x	x	x	
Mellitz	Richard	Intel	x	x	x	
Moore	Charles	Avago Technologies	x	x	x	
Moorwood	Andy	Infinera Corp	x	x	x	
Muth	Karl	TI	x	x	x	
Nakamoto	Edward	Spirent Communications	x	x	x	
Noll	Kevin	Time Warner Cable			x	
Ofelt	David	Juniper Networks	x		x	
Palkert	Tom	Xilinx, Luxtera, Molex	x	x	x	
Parthasarathy	Vasudevan	Broadcom	x			
Patel	Pravin	IBM	x	x	x	
Petrilla	John	Avago Technologies	x			
Rabinovich	Rick	Alcatel-Lucent	x	x	x	
Ran	Adee	Intel	x	x	x	
Remein	Duane	Huawei			x	
Sela	Oren	Mellanox	x	x	x	
Sestagalli	Flavio	Coilcraft		x	x	
Shanbhag	Megha	TE Connectivity	x	x	x	
Shrikhande	Kapil	Dell		x		
Sommers	Scott	Molex	x	x	x	
Stassar	Peter	Huawei	x			
Stevens	Daniel	Fujitsu Semiconductor	x	x		
Suzuki	Ken-Ichi	NTT		x		
Szczepanek	Andre	Inphi	x	x		
Takahata	Kiyoto	NTT	x	x		
Toyoda	Hidehiro	Hitachi			x	
Tracy	Nathan	Tyco Electronics	x	x	x	
Trowbridge	Steve	Alcatel-Lucent	x	x		
Vareljian	Albert	Independent	x	x	x	
Varsanafiev	Dmitri	IP Cores		x		

			# attended:	69	65	62
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Last Name	First Name	Affiliation	Monday	Tuesday	Wednesday	
Wang	Xiaofeng	Qualcomm	X			
Xu	Junyi	Marvell	X	X	X	
Xu	Yu	Huawei	X			
Zhao	Wenyu	CATR China	X	X		
Zivny	Pavel	Tektronix	X	X	X	