

802.3 Plenary Meeting
IEEE P802.3bp 1000BASE-T1 Task Force
Chair: Steven B. Carlson
San Diego, CA

Tuesday July 15, 2014

09:00 - Meeting convened

09:00 - [Steven Carlson - Agenda and General Information](#)

- Appointment of Recording Secretary - Curtis Donahue
- Welcome and Introductions
- Review Agenda
- Task force decorum

09:07 - The chair remembers Hugh Barrass

09:23 - The chair calls for potentially essential patents, and slides 1-4 were read.

- The Call for Patents was made and no response was received

09:31 - [Xiaofeng Wang - Answer to PoDL Questions](#)

- The chair decides to set aside 13:30-14:00 for discussions related to his topic

09:43 - [Adam Healey - IEEE P802.3bj Task Force Comment Tool Tutorial](#)

Mr. Healey gave a tutorial on the use of the comment tool with tips on how to be a good commenter

10:14 - The chair called for a 15 minute break

10:32 - Reconvened

10:44 - [Chris DiMinico/Mehmet Tazebay - Channel Definitions Ad hoc Report](#)

The ad hoc reported on further work on the test annexes

11:08 - [Mehmet Tazebay - EMC & Noise Ad Hoc Report](#)

The ad hoc reported on the on-going work with the PoDL TF on noise. An update to the TX_PSD mask was proposed, and new information on connector vibrations was discussed.

11:22 - [Zhenyu Liu - Updates to PAM3 Mapping for 802.3bp](#)

11:27 - [Thomas Müller - IEEE 1000BASE-T1 Connector vibration test results](#)

Additional test data on high-frequency performance when vibration is present was discussed.

11:44 - [Xiaofeng Wang - On Symbol Mapping for 1000BASE-T1](#)

12:26 - The chair called a break for lunch

13:35 - Reconvened

13:35 - [William Lo - Encoder / FEC / PAM3 Proposal](#)

13:55 - [Zhenyu Liu - Line Code and FEC performance](#)

14:19 - [BZ Shen - A Baseline Proposal for 1000BASE-T1 Mapping and FEC](#)

Three different mappings were presented; the data show they are very close in performance.

14:59 - The chair recessed the meeting until July 16, 2014 at 10:00

- The meeting was recessed while Ahmad Chini and William Lo are still in the queue for discussion. The meeting will resume with the queue intact.

Wednesday July 16, 2014

10:15 - The chair reconvened the meeting

- Continue discussions regarding BZ Shen's presentation

10:34 - The chair called for a 10 minute break

10:45 - Reconvened

10:46 - [William Lo - Auto-Negotiation Status Update](#)

11:01 - [William Lo - Training & EEE Proposal](#)

11:22 - [Jim Graba - EEE Proposal for 1000BASE-T1](#)

Both EEE proposals have many point of commonality. Both presenters agreed to work on a joint EEE proposal.

11:42 - [Peiqing Wang/Mehmet Tazebay - 1000BASE-T1 PHY Synchronization Method & Start-up Process and Link Failure Case Analysis](#)

12:14 - The chair called a break for lunch

13:30 - Reconvened

13:30 - [Ahmad Chini - Effect of Scrambling Choices on 1000BASE-T1 Emission](#)

13:50 - [Chris DiMinico - 802.3bp Baseline Optional Link Segment](#)

14:15 - [Chris DiMinico - Channel Definitions Ad hoc Report](#)

- Addressing specifically what was discussed/modified in the Ad Hoc

14:26 - [David Brandt - Industrial Automation IoT Market](#)

The group voted to hear this presentation, which was submitted during the meeting.

14:39 - The chair recessed the meeting until July 17, 2014 at 09:00

Thursday July 17, 2014

09:15 - The chair reconvened the meeting

09:16

Motion #1

Move that the IEEE P802.3bp Task Force adopt proposal in diminico_3bp_02a_0714pdf slides 7-11 as replacement text for Annex 97B Alien Crosstalk Test Procedure IEEE P802.3bp draft standard and give editorial license to implement.

Moved by: Chris DiMinico

Seconded by: Bob Wagner

All in Room Y: 57 N: 0 A: 1

802.3 voters only Y: 35 N: 0 A: 0

Technical 75% required

Result: Motion passes

09:27

Motion #2

Move that the IEEE P802.3bp Task Force adopt proposal in diminico_3bp_01b_0714.pdf slides 7-13 as 97.4.4.2 Link transmission parameters for link segment type B and give editorial license to implement.

Moved by: Chris DiMinico

Seconded by: Bob Wagner

All in Room Y: 64 N: 0 A: 1

802.3 voters only Y: 33 N: 0 A: 0

Technical 75% required

Result: Motion passes

09:42

Motion #3

Move that the IEEE P802.3bp Task Force adopt TX_PSD as defined in tazebay_3bp_01_0714.pdf (page #3).

Moved by: Mehmet Tazebay
Seconded by: William Lo

All in Room Y: 58 N: 0 A: 5
802.3 voters only Y: 35 N: 0 A: 2
Technical 75% required
Result: Motion passes

09:45

Motion #4

Move that the IEEE P802.3bp Task Force adopt 750Mbaud/sec for baud rate as defined in lo_3bp_01a_0714.pdf (page #15).

Moved by: William Lo
Seconded by: Mehmet Tazebay

All in Room Y: 54 N: 0 A: 6
802.3 voters only Y: 34 N: 0 A: 2
Technical 75% required
Result: Motion passes

09:50

Motion #5

Move that the IEEE P802.3bp Task Force adopt the mapping scheme 3B2T for 1000BASE-T1 as defined in shen_3bp_01_0714.pdf (page #4).

Moved by: Mehmet Tazebay
Seconded by: BZ Shen

The mover requested a roll call vote. Mr. David Law, the 802.3 Chair, assisted in the voting process.

Roll Call Vote

Name	Company	Affiliation	All in Room vote	802.3 only vote
Bernd Hornmeyer	Phoenix Contact	Phoenix Contact	Yes	Yes
Richard Mei	CommScope	CommScope	Yes	Yes
BZ Shen	Broadcom	Broadcom	Yes	Yes
Xiaofeng Wang	Qualcomm	Qualcomm	No	No
Carlos Pardo	KDPOF	KDPOF	Yes	Yes
Yong Kim	Broadcom	Broadcom	Yes	Yes
Karl Weber	Beckhoff	Beckhoff	Yes	Not Applicable

Phillip Brownlee	Coilcraft	Coilcraft	Yes	Yes
Mike Tu	Broadcom	Broadcom	Yes	Not Applicable
Hui Pan	Broadcom	Broadcom	Yes	Not Applicable
Peiqing Wang	Broadcom	Broadcom	Yes	Not Applicable
Jim Graba	Broadcom	Broadcom	Yes	Not Applicable
Thuyen Dinh	Pulse	Pulse	Abstain	Not Applicable
Neven Pischl	Broadcom	Broadcom	Yes	Not Applicable
Tom Brown	Vitesse	Vitesse	Yes	Not Applicable
Mike Gardner	Molex	Molex	Yes	Yes
Dave Dwelley	Linear Technology	Linear Technology	Yes	Yes
Mark Laubach	Broadcom	Broadcom	Yes	Yes
Zhenyu Liu	Marvell	Marvell	No	No
Shaoan Dai	Marvell	Marvell	No	No
Mandeep Chadha	Vitesse	Vitesse	Yes	Yes
Will Bliss	Broadcom	Broadcom	Yes	Yes
Dave Hess	Cord Data	Self	Yes	Yes
Farid Hamidy	Pulse	Pulse	Yes	Not Applicable
Andy Gardner	Linear Tech	Linear Tech	Yes	Not Applicable
Henry Muysshondt	Microchip Technology	Microchip Technology	No	No
Liang-wei Huang	Realtek	Realtek	Yes	Yes
Stefano Valle	STMicroelectronics	STMicroelectronics	Yes	Yes
Jin Zhang	Marvell	Marvell	No	No
Dale Amason	Freescale	Freescale	Yes	Not Applicable
Steve Shellhammer	Qualcomm	Qualcomm	No	No
Peter Wu	Marvell	Marvell	No	No
Kirsten Matheus	BMW	BMW	Yes	Yes
Thomas Hogenmüller	Robert Bosch	Robert Bosch	Yes	Yes
Geoff Thompson	Gracaisi	Robert Bosch	Yes	Yes
Sujan Pandey	NXP	NXP	Yes	Yes
Antony Joseph	NXP	NXP	Yes	Not Applicable
Mike Klempa	UNH-IOL	UNH-IOL	Abstain	Not Applicable
Alex Seiger	UNH-IOL	UNH-IOL	Abstain	Not Applicable

Hui Ling Lou	Marvell	Marvell	No	Not Applicable
Zhipei Chi	Marvell	Marvell	No	Not Applicable
Efstathios Larios	Jaguar Land Rover	Jaguar Land Rover	Yes	Not Applicable
Sasha Babenko	Molex	Molex	Yes	Yes
Ahmad Chini	Broadcom	Broadcom	Yes	Not Applicable
George Zimmerman	CME Consulting	CommScope	Yes	Yes
Masood Shariff	CommScope	CommScope	Yes	Not Applicable
Theo Brillhart	Fluke	Fluke	Abstain	Not Applicable
David Law	HP UK Ltd	HP UK Ltd	Yes	Yes
Rainer Poehmerer	Leoni	Leoni	Yes	Yes
Larry Matola	Delphi	Delphi	Yes	Not Applicable
William Lo	Marvell	Marvell	No	No
Mike Bennett	3MG Consulting	3MG Consulting	Abstain	Abstain
Wayne Larsen	CommScope	CommScope	Yes	Yes
Alan Flatman	LAN Technologies	LAN Technologies	Abstain	Abstain
Curtis Donahue	UNH-IOL	UNH-IOL	Abstain	Abstain
Garold Yurko	TE Connectivity	TE Connectivity	Yes	Yes
Marek Hajduczenia	Bright House Networks	Bright House Networks	Yes	Yes
Thomas Müller	Rosenberger	Rosenberger	Yes	Yes
Bob Wagner	Panduit	Panduit	Abstain	Abstain
David Brandt	Rockwell Automation	Rockwell automation	Abstain	Not Applicable
Nick Duer	General Cable	General Cable	Yes	Not Applicable
Mehmet Tazebay	Broadcom	Broadcom	Yes	Yes

All in Room Y: 43 N: 10 A: 9
802.3 Voters Only Y: 27 N: 8 A: 4
Technical 75% required
Result: Motion passes

11:15 - The chair discusses the P802.3bp Strawman Timeline

11:20

Motion#6

To adopt the timeline as captured in P802.3bp_strawman_timeline_0714.pdf, with editorial license to create 802.3 timeline graphic.

Moved by: Chris DiMinico

Seconded by: Gary Yurko

Voice Vote

Technical 75% required

Result: Motion passes by voice without opposition

11:31 - The chair asks who will attend the September interim

Yes: 22 Maybe: 11 "Absolutely will not be caught dead in Kanata": 5

11:33 - The chair entertains a motion to adjourn

11:33

Motion #7

To adjourn the meeting

Moved by: Mehmet Tazebay

Seconded by: Mike Gardner

Result: Motion passes by voice without opposition

11:35 - The meeting was adjourned

DAVE DUELLBY LTC

LTC

DWD

P802.3bp Task Force Sign-In Sheet

July 2014

RICHARD MEI

COMMScope

COMMScope

RM

Name	Company	Affiliation	T	W	Th
Steve Carlson	HSD	Marvell, Broadcom, Huawei	SC	SC	
Thomas Hogenmuller	Bosch	Bosch	TH		
Benson Huang	Realtek	Realtek	Huang	Huang	Huang
Mandeep Chadha	Vitesse	Vitesse	AD	AD	AD
GAROLD YURKO	TE	TE	GY	GY	GY
LARRY MATOUA	DELPHI	DELPHI	LM	LM	LM
RAINER PÖHMERER	LEONI	LEONI	RP	RP	RP
Thomas Müller	Rosenberg	Rosenberg	TM	TM	
Bernd Horrmeyer	Phoenix Contact	Phoenix Contact	HB	HB	HB
Jim Graba	Broadcom	Broadcom	JG	JG	JG
PEIQING WANG	Broadcom	Broadcom	PW	PW	PW
Ahmad chini	Broadcom	Broadcom	AC		
Mehmet Tazebay	Broadcom	Broadcom	MT	MT	MT
Zhenyu Liu	Marvell	Marvell	ZL	ZL	ZL
EFSTATHIOS LARIOS	JAGUAR LAND ROVER	JAGUAR LAND ROVER	EL	EL	EL
Nick Duer	General Cable	General Cable	ND	ND	ND
Tim BROWN	Vitesse	Vitesse	TB	TB	TB
Hui PAN	Broadcom	Broadcom	HP		HP
Yasuaki Kawatsu	Hitachi Metals	Hitachi Metals	YK		
Carlos Perdo	KDPOF	KDPOF			
Sujan Paudey	NXP	NXP	SP		SP
BZ SHEN	Broadcom	Broadcom	BZ	BZ	BZ
Mike Tu	Broadcom	Broadcom	MT		
HENRY MUYSHONDT	MICROCHIP	MICROCHIP	HM	HM	HM
STEFANO VALLS	STMICROELECT.	STMICROELECT.	SV	SV	SV

WAYNE LARSEN

COMMScope

COMMScope

WDL

YONG KIM

Broadcom

Broadcom

YK

Sudhan S

Marvell

Marvell

SS

SAGAR TAMHANE

MARVELL

MARVELL

Signature

Phillip Broulee Conerats Conerats

Thursday
✓ 2

P802.3bp Task Force Sign-In Sheet
MARK LAUSCHT

July 2017

Name	Company	Affiliation	T	W	Th
Mitsuhiko Mizuno	Denso	Denso	DM		
Farid Hamidy	Pulse	Pulse	PH	PH	PH
Shigeharu Kobayashi	TE Connectivity	TE Connectivity	TC		
RUBEN TEREZ-ARANDA	KDPOF	KDPOF	RT		
XIAO FENG WANG	Qualcomm	Qualcomm	XFW	XFW	XFW
Shaoan Dai	Marvell	Marvell	SD	SD	SD
SeungSu Kim	Hyundai Motor Company	Hyundai Motor Company	SK	SK	SK
Woo Sub Kim	Hyundai Motor Company	Hyundai Motor Company	WK	WK	WK
Hayato Yuki	Sumitomo	Sumitomo	YW		
Curtis Donahue	UNH-IOL	UNH-IOL	CKD	CKD	CKD
SHAHAR FELDMAN	MICROSEMI	MICROSEMI	SE	DA	
Dale Amazon	Freescale	Freescale	DA		DA
Mike Bennett	3mg Consulting	3mg Consulting	MB	MB	MB
Vijaya Ceekala	Texas Instruments	Texas Instruments	VC		
Will Bliss	Broadcom	Broadcom	WB		
CHRIS DIMINICO	MC COMMUNICATIONS	PANDUIT	CD		
WILLIAM LO	MARVELL	MARVELL	WL	WL	WL
Sasha Babenko	Molex	Molex	S.B.	S.B.	S.B.
MIKE GARDNER	Molex	Molex	MG	MG	MG
Naoshi Serizawa	Yazaki	Yazaki	NS		
Takayuki Tajima	Yazaki	Yazaki	T.T		
DAVID BRANDT	ROHMWOL	ROHMWOL	DBB	DBB	DBB
Kirsten Mathews	BMW	BMW	JK	JK	JK
Alex Seiger	UNH-IOL	UNH-IOL		ASR	ASR
Ahmad Chin	Broadcom	Broadcom	ACH	ACH	ACH
Woo Sub Kim	Hyundai Motor Company	Hyundai Motor Company			HK
Hui-Ling Lou	Marvell	Marvell			LP
VLADAN PETROVIC	MARVELL	MARVELL			
Yan Zhang	Marvell	Marvell			

P802.3bp Task Force Sign-In Sheet

July 2014

Will Bliss

Brandon

Brandon

WB

Name	Company	Affiliation	T	W	Th
DAVID BRANDT	ROCKWELL	ROCKWELL		WB	
Mitsuru Inada	Yokogawa Electric	Yokogawa Electric		MI	
Theo Brillhart	Fluke	Fluke		SB	SB
Sujan Pandey	NXP	NXP		SB	SB
Antony Joseph	NXP	NXP		SB	
Farid Hamidy	Pulse	Pulse		FW	FW
Kenny Muysboudt	MICROCHIP	MICROCHIP			
Mehmet Tazel					
Mike Tu	Broadcom	Broadcom		MT	MT
Hui PAN	Broadcom	Broadcom		HP	HP
DAVE HESS	CORD DATA	CORD DATA		CH	CH
Geoff Thomas	GRACASI	Bosch		G	G
Peter Wu	Marvell	Marvell		W	W
George Zimmerman	CME Consult	CommScope		MG	MG
CHRIS DIMINICO	MC COMMUNICATIONS	PANDUIT		C.D.	
Mike Klempa	UNH FOL	UNH FOL		MK	MK
Paul Vanderboon	Berk-Tek LLC	Berk-Tek LLC		PZ	
MASOOD SHARIFF	COMMSCOPE	COMMSCOPE		MS	MS
Jeff Paulsen	Leviton	Leviton		JP	
George Zimmerman	CME Consult	CommScope		MG	
MAREK HAJDUCZENIA	BHPN	BHPN			Hajd
CHRIS DIMINICO	MC COMMUNICATIONS	PANDUIT			C.D.
ALAN FLATHAN	LEN TECHNOLOGIES	LEN TECHNOLOGIES			AL
THUYEN DINH					TD
ANTONY JOSEPH	NXP	NXP			AS

NEVEN PISCHL

BROADCOM

BROADCOM

NP
Zhiper Chi
Mississippi

Jin Zhang

Marvell

Marvell

OVER

Zhiper Chi

Marvell

Marvell

EDWARD AU

MARVELL

MARVELL

Mingguang Xu

Marvell

Marvell