

Unconfirmed Meeting Minutes: IEEE P802.3bp 1000BASE-T1 Task Force
January 14, 2015
Atlanta, Ga
Prepared by Gary Yurko

IEEE P802.3bp 1000BASE-T1 Task Force meeting convened at 08:00 AM, Tuesday, January 14, 2015 by Steven B. Carlson, 802.3bp Task Force Chair.
Attendance is listed in Appendix A

ADMINISTRATIVE MATTERS

Presentation:

Presenter: Steven B. Carlson, Chair.

Appointment of Recording Secretary – Gary Yurko, TE Connectivity

The Chair called for introductions and affiliations, and participants introduced themselves.

The Chair reviewed the agenda.

Motion #1: Move to accept the agenda.

M: Brett McClellan S: Marek Hajduczenia

Approved by voice vote without objection (Procedural > 50%)

Motion #2: Approve the minutes from the November 2014 meeting

M: Brett McClellan S: William Lo

Approved by voice vote without objection (Procedural > 50%)

Task Force Decorum slide was shown. Chair asked if persons from the press are in the room: No members of the press were in the room.

The Chair reviewed the goals for the meeting, access to the reflector and website, and ground rules.

Attendance: Chair advised the group of the IEEE meeting attendance tool and procedures, including both the attendance sheet and the web attendance tracking tool.

IEEE Patent Policy: At 8:11 the Chair showed slides 11 to 14 patent policy from agenda_3bp_1114.pdf.

The Chair made the call for potentially essential patents at 8:10 AM with no response.

Presentation issues: Presentations were late, they will be placed in queue and will not be posted until they are presented

The Chair requested to attach the presentation to the comment file to make it easier for the editor to review.

Chief Editor Marek Hajduczenia started the comment resolution for 71 comments at 8:25AM. The Chair stated that comment resolution needs to be resolved in the meeting.

Action item Steve Carlson to work with bw that they are aware of the definitions and where they are defined

9:25 AM Presentation on 97.3.4 PMA training proposal

10:10 AM Back to comments

12:10 break for Lunch

PRESENTATIONS

The Chair then moved to the presentations for the meeting.

Began Presentations at 1:30PM

#1 Title: Idle Request During LPI Using OAM

(http://www.ieee802.org/Lo_3bp_03_0115.pdf)

Abstract: Use OAM to indicate to link partner to send idles instead of quiet/refresh as described in page 3 of Lo_3bp_03_0115.pdf

Exchange of 1000BASE-T1 OAM frames is mandatory if 1000BASE-T1 EEE is supported. The support for the OAM message portion is optional.

Presenter: William Lo Marvell

Discussion: General discussion supports the proposal

#4 Title: MDI Return Loss Limit Proposal for 1000BASE-T1

(http://www.ieee802.org/pan_bp_01_0115.pdf)

Abstract: The PoDL inductors and the capacitive parasitics dominate the RL roll-off at low and high frequencies, respectively.

• $\pm 10\%$ termination impedance variations and the CMC parasitics set max mid-freq. RL to 18dB for f from $f_L = 10\text{MHz}$ to $f_H = 100\text{MHz}$.

•An MDI RL limit is proposed that rolls off from 18dB beyond (f_L , f_H) with $\sim 2\text{dB}$ margin at Nyquist for 5uH PoDL inductance and 5pF capacitance.

•The proposal is a reasonable tradeoff between cost and performance:

–The 5uH minimum PoDL inductance, a total of 5pF parasitic capacitance, and $\pm 10\%$ total impedance variations are feasible at reasonable cost.

Presenter: Hui Pan, Ahmad Chini Broadcom

Discussion: Question on balance

#3 Title: 1000BASE-T1 Transmitter Test Modes and Draft text

(http://www.ieee802.org/chini_bp_01_0115.pdf)

Abstract: Transmitter test modes reviewed, test fixtures and limits proposed for 1000BASE-T1.

Corresponding text is provided for the 802.3 specification clause 97.5.2. It is proposed that the text be adopted as a baseline for 1000BASE-T1 specification on test modes.

Presenter: Ahmad Chini

Discussion: Questions asked about test mode 1

#2 Title: OAM Data Transfer during LPI

(http://www.ieee802.org/graba_bp_01_0115.pdf)

Abstract: Can provide OAM during LPI mode transparent to layers above the physical layer be added to the spec

Presenter: Jim Graba

Discussion:

Break at 3 PM

Resume at 3:22PM the following presentations were discussed in the comment resolutions

#5Title: Link Monitoring

(http://www.ieee802.org/Lo_3bp_01_0115.pdf)

Abstract:

Presenter: William Lo Marvell

Discussion: put this 97.6 into 96.7

#6Title: OAM Proposal

(http://www.ieee802.org/Lo_3bp_02_0115.pdf)

Abstract:

Presenter: William Lo Marvell

Discussion: change per highlighted in

http://www.ieee802.org/3/bp/public/jan15/Lo_3bp_04_0115.pdf

#7Title: Proposed Baseline Text for PCS

(http://www.ieee802.org/mcclellan_3bp_0115.pdf)

Abstract:

Presenter: Brett McClellan Marvell

Discussion: In section 97.3.4.1 infocfield SCR32 to SCR0 in 3 places

#8Title: 80/81 PCS State Machines for EEE

(http://www.ieee802.org/mcclellan_3bp_04_0115.pdf)

Abstract:

Presenter: Brett McClellan Marvell

Discussion: Adopt resolution in comment 53

#9Title: Brett will make changes to file send them to Steve

(http://www.ieee802.org/mcclellan_3bp_03_0115.pdf)

Abstract:

Presenter: Brett McClellan Marvell

#10 Title: Comment 87

Put together a presentation for tomorrow

#11 Title Comment 98 open no resolution

#12 Comment #122 Brett will write this up and present tomorrow morning

#13 comment 88 proposed changes to Fig 98-3 accepted

#14 comment 92 proposed changes to 98-7 accept redrawn fig 98.7

#15 comment 98 withdrawn

97.5.2 Test modes proposed draft text by **Ahmad Chini will be posted to be reviewed tonight and talked about tomorrow**

Recessed at 4:34PM

Reconvened at 8:00AM

Continued with Comment resolutions

Closed all of the comments

Motion #1

The IEEE P802.3bp 1000BASE-T1 Task Force accept the comment resolutions to D1.1 as detailed in

http://www.ieee802.org/3/bp/comments/8023bp_D11_approved.pdf along with the results of motions accepted at the January 2015 Task Force meeting and charter the editor to produce D1.2 for review and comment.

Passed/Fail Timestamp

M: Chris Mash
S: Brett McClellan
Technical (75% required)
Yes 19

No 0

Abstain 0

Motion passes

Motion #2
Motion by Mike Tu to adopt Chini_3bp_02_0115 to be incorporated in D1.2.pdf Moved by Mike Tu,
Seconded by Jim Graba
Yes 17
No 0
Abstain 1

Motion passes

Motion #3
Mike Tu moved to adopt the MDI return loss limit on p8 of doc pan_3bp_01_0115.pdf Moved by Mike Tu,
Seconded Gary Yurko
Yes 13
No 1
Abstain 3
Motion passes

Accepted as a baseline, need to add text,

Try something new, we may request to go to working group ballot at the May interim
Editor needs more text, what technical things are we missing

• Future Meetings

Feb 9 and 10, 2015 at Freescale in Austin, Texas co-located with P802.3
bw meeting on Feb 11-12, 2015

Motion to adjourn by Brett McClellan, seconded by Steven Chen

Meeting adjourned

P802.3bp Task Force Sign-In Sheet

January 2015

Name	Company	Affiliation	W	Th	/
STEVE CARLSON	HSD	MARVELL BRCM, FIVAKEN	SR	SR	
Brett McClellan	Marvell	Marvell	BM	BM	
William Lo	MARVELL	MARVELL	W2	W2	
MAREK MAYSZCZAK	BHN	BHN	MM	MM	
LARRY MATOLA	DELPHI	DELPHI	YM	SM	
Natalie Wienckaus	GM	GM	NW	NW	
ALON REGEV	IXIA	IXIA	AR	AR	
Victor Berglund	Vitesse	Vitesse	VPB	VPB	
Tom Brown	Vitesse	Vitesse	TKB		
DAVE HESS	CORD DATA	CORD DATA			
Ahmad Chini	Broadcom	Broadcom	A.ch.	Adh.	
Chris Mash	Marvell	Marvell	CM	CM	
Shaoan Dai	Marvell	Marvell	SD	SD	
Baruch Bublil	Cadence	Cadence			
THUYEN DINH	PULSE	PULSE			
Sasha Babenko	Molex	Molex	SB	SB	
Andrew Gardner	Linear Technology	Linear Technology	AG	AG	
Paul Kish	BELDEN	BELDEN	P.K.		
Mehmet Tazebay	Broadcom	Broadcom			
Mike Tu	Broadcom	Broadcom	Mt	Mt	
Jerome Yu	Realtek	Realtek	Yu		
Robert Boatright	Apple	Apple	RB		
RALPH MASON	MICROCHIP	MICROCHIP	RM		
ALAN FLATHAN	LOW TECHNOLOGIES	LOW TECHNOLOGIES	AF		
CARY YURKO	TE	TE	CY	CY	

