

Unconfirmed Meeting Minute: IEEE802.3bw 1TPCE Study Group

July 15-16, 2014

San Diego CA, USA

IEEE802.3bw 1TPCE Study Group convened at 15:00, Tuesday, July 15, 2014 by the chair Thomas Hogenmueller.

Attendance is listed in Appendix A

Administrative Matters

Mehmet Tazebay is assigned for recording secretary.

The chair called for introductions and affiliations.

Reviewed Agenda

Reviewed Decorum

Reviewed Email reflector

Reviewed Ground rules

Chair read from Guidelines for IEEE

Motion #1: Approve the agenda as modified from Hogenmueller_01_0714.pdf

Approved by voice without opposition (Procedural > 50%)

Task Force Decorum

Slides were shown. Chair asked if persons from the press are in the room: No press in the room is recognized.

Motion #2:

Approve the minutes from the May 2014 Norfolk Meeting
20140520_MeetingMinutesNorfolkInterim.pdf

Motion passes by voice without opposition (Procedural >50%)

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

IEEE Patent Policy at 15:10, Chair showed slide 0 to 4 patent policy from agenda_3bp_0514.pdf.

Chair read aloud slides from 0 through 4. He made the call for potentially essential patents at 15:13pm, and none response.

Chair then continued review of the presentation, including overview of the IEEE standards organization and the standards development process.

Motion #3: Adopt the suggested restatement to be re-implemented in case there is an objection for having a “TBD” in the original objective in hogenmuller_0714.pdf (page #13)

Discussion and Modification on Objective: Geoff Thomson explained and discussed the implication of having a “TBD” in the objective and made a motion to re-write the objective

“Support optional operation with run-time configuration, by allowing time from power_on=FALSE to a state capable of transmitting and receiving valid data to be up to TBD.”**

As

“Support optional operation with run-time configuration, that specifies a maximum allowable time from power_on=FALSE to a state capable of transmitting and receiving valid data.”**

William Lo asked for clarification and Geoff Thomson explained that this is for efficiency of the process.

After the discussions, the chair called the question.

M: Geoff Thompson,
S: Mike Bennett

Yes: 34

No: 0

Abstain: 1

Presentations:

Title: Single Twisted Pair Auto-Negotiation Update

Presenter: William Lo

Summary: The work has been progressing since 5/14 Norfolk meeting in P802.3bw. There has been changes to the state machines which were presented in Norfolk. Mr. Lo suggested a new wording for the current auto-negotiation objective.

Discussion:

- It was stated that an optional Auto-Negotiation is proposed as for 802.3bp.
- Ms. Kirsten Matheus stated that as an OEM, they do not wish to have it as a mandatory feature and they are against the change of the wording of the current objective to make it mandatory.
- Mr. Tazebay was stated that this work is ongoing at 802.3bp and is not yet concluded.
- Mr. Geoff Thompson clarified the point that 802.3bp has not been published work yet and therefore, the group cannot reference to it.

Title: An Overview of BroadR-Reach Specification V3.2 Changes

Presenter: Mehmet Tazebay

Summary: The presenter outlined the differences between OABR V3.0 and V3. The changes are due to

- Typographical corrections
- Droop limit line relaxation & MDI Return loss redefinition in order to accommodate 1-pair PoDL systems' constraints
- Redefined mode conversion limit line for enabling various automotive qualified cables, connectors and chokes

Mr. Tazebay stated these changes do not affect

- Electrical conformance and/or interoperability to V3.0.

Discussion: The group has discussed whether to change the V3.0 reference in the current objectives. Based on the data presented, the group has decided that these changes do not substantiate a need for the change

Title: Tdroop vs. Inductor Size and Cost for PoDL

Presenter: Dave Dwelley & Andy Gardner

Summary: Mr. Gardner discussed the impact of Tdroop on the PoDL inductors

Discussion: Mr. Gardner stated the relaxed the droop factor to 45% will allow the PoDL inductance to drop by about half. The relative cost is an important to keep an eye on. Relaxation of the Tdroop specification further will ease the burden on the PoDL decoupling inductors at the expense of PHY SNR. This is to be investigated further.

1st Day closed at 16:56 on Tuesday July 15, and
The Chair appointed Mehmet Tazebay as recording secretary for day 2.

Reconvened at 9:05am on Wednesday Jul 16th, 2014.

The chair started reviewing the PAR, 5 Criteria and the Objectives and asked for individuals if there are movers and seconders for 802.3 motions. Several individuals indicated their interest to be the mover and seconder of 802.3 motions.

The chair discussed about the September Interim meeting in Kanata (Greater Ottawa) Canada. He suggested having bi-weekly conference calls.

The group discussed the preliminary work that needs to be done in support of

- Automotive environment as adopted in 1000BASE-T1 including automotive fault conditions
- Automotive start-up process
- Impact of PoDL on 100BASE-T1
- Impact of Auto Negotiation on 100BASE-T1

Motion #4: Motion to approve closing plenary presentation

M: Kirsten Matheus

S: Mehmet Tazebay

Yes: 21

No: 0

Abstain: 2

The chair asked if there are any other topics to discuss. There was no response
The motion was asked for adjourning this session at 9:55am

M: Mehmet Tazebay

S: Gary Yurko

The motion passed by voice without any opposition.

Adjourned at 9:57am on July 16th, 2014.

1 Twisted Pair 100 Mb/s Ethernet Study Group Attendance Sheet

Name	Email	Employer	Affiliation	Tue	Wed
Farid Hamidy	thamidy@Pulseelectronics.com	Pulse	Pulse	JH	
Geoff Thompson		GRACASI	Bosch	G	
EFSTATHIOS LARIOS	elarios1@jaguarlandrover.com	JAGUAR LAND ROVER	JAGUAR LAND ROVER	E.L	
Thomas Müller	thomas.mueller@rosenberger.de	Rosenberger	Rosenberger	Mu	
RAINER POEHLERER	RAINER.POEHLERER@LEONI.COM	LEONI	LEONI	RP	
Bernd Horrmeyer	bhorrmeyer@phoenixcontact.com	Phoenix Contact	Phoenix Contact	U	
Mandeep Chahal	deep@vitem.com	Vitem	Vitem	MC	
Co IT Correa	ccorrea@intrepidcs.com	Intrepid Control Systems	SAME	CC	
Shaoyan Dai	sdai@marvell.com	Marvell	Marvell	SD	
Zhenyu Lin	zlin@marvell.com	Marvell	Marvell	ZL	
Antony Joseph	antony.joseph@nxp.com	NXP	NXP	AJ	
Sujan Pandey	sujaan.pandey@nxp.com	NXP	NXP	SP	
LARRY MATOLA	LAWRENCE.MATOLA@DELPHI.COM	DELPHI	DELPHI	LM	
STEFANO VALLE	stefano.valle@st.com	ST MICROELECTRONICS	ST MICROELECTRONICS	SV	
Curtis Donahue	cdonahue@iol.unh.edu	UNH-IOL	UNH-IOL	CD	
Alex Seiger	aseiger@iol.unh.edu	UNH-IOL	UNH-IOL	AS	
Woosub KIM	hahetal95@hyundai.com	Hyundai motor company	Hyundai motor company	WK	
Seungsu Kim	seungsu.kim@hyundai.com	Hyundai Motors Company	Hyundai Motors Company	SK	
Mike Bennett	mjbennett@ieee.org	3MG Consulting	3MG Consulting	MB	
HENRY MUYSHONDT	henry.muyshondt@microchip.com	MICROCHIP	MICROCHIP	JEM	

See Pg 2 - - -

1 Twisted Pair 100 Mb/s Ethernet Study Group Attendance Sheet

Name	Email	Employer	Affiliation	Tue	Wed
Mike Gardner	Mike.gardner@Molex.com	Molex	Molex	MG	
Yong Kim	ybkim@broadcom.com	Broadcom	Broadcom	YK	
Sasha Babenko	sasha.babenko@molex.com	Molex	Molex	SB	
Brian Sparrowhawk	BSPARROWHAWK@LEVITON.COM	LEVITON	LEVITON		
Mike Tu	tum@broadcom.com	Broadcom	Broadcom	MT	
XIAOFENG WANG	wangxiao@gti.gerald	Qualcomm	Qualcomm	XFW	
Jack Aguirre	jack@jackaguirre.com			JA	
Mike Klempa	mklempa@iol.unh.edu	UNH FOL	UNH FOL	MK	
Dale Amason	dale.amason@freescale.com	Freescale	Freescale	DA	
Benson Huang	benso_nlw@realtek.com	Realtek	Realtek	Huang	
Nick Durr	ndurr@generalcable.com	General cable	GeneralCable	ND	
DAVID BRANDT	ddbrandt@ra.rockwell.com	Rockwell	Rockwell	DB	
Kirsten Matheos	kirsten.matheos@bmw.de	BMW	BMW	KM	
William Lo	williaml@marvell.com	Marvell	Marvell	WL	
Mitsuru Iwaoaka	Mitsuru.Iwaoaka@jp.yokogawa.com	Yokogawa	Yokogawa	MI	
Mehmet Tazebay	mtazebay@broadcom	Broadcom	Broadcom	MT	