

IEEE P802.3bt DTE Power via MDI over 4-Pair Task Force

May 19-21, 2015

Pittsburgh, PA, USA

Minutes

Chair: Chad Jones

Recording Secretary: Peter J. Scruton

All times local to Pennsylvania, USA in 24-hour format

Began 13:15 Tuesday, May 19th.

Chad Jones began the meeting.

Agenda was discussed.

Introductions being delayed until a later point, as more people are expected to join that are not yet in the room. (Chair's note: to put it less delicately, even though we waited for more attendees to show up and started 15 minutes late, a significant portion of the group couldn't be bothered to show up on time.)

Press call made, no response.

Decorum reviewed.

The chair's goals for the meeting were discussed.

Ground Rules reviewed.

Chair reminded people to both log attendance on the sheet and log in to imat to record attendance.

Chair reviewed Patent slides and made a call for Potentially Essential Patents, and there was no response.

Overview of Task Force progress was reviewed.

No liaison letters to review.

Introductions / Affiliations

Koussalya Balasubramanian has changed employers but is working with her new employer to ensure support to continue being editor.

Future meetings were discussed.

Dave Abramson spoke about the Interim in Manchester, NH in June 2015.

Motion 1:

Motion to approve the minutes from March 2015

Mover: Christian Beia

Seconder: Matthias Wendt

Procedural, 50%

Passes by voice without opposition

Christian Beia reviewed a possible October interim in Catania, Italy (Grand Hotel Baia Verde).

Chad Jones reviewed a possible Tele-presence interim instead with multiple Tele-presence sites globally that people could travel to, to attend. No interest was expressed in a Tele-presence meeting.

Straw Poll was taken regarding Italy in October 2015:

I would definitely attend the meeting in Catania, Italy

Y: 13

I might attend the meeting in Catania, Italy

Y: 9

I would not attend the meeting in Catania, Italy

Y: 2

David Law indicated that we must submit a preview draft to the working group by November 1st in order to satisfy timing requirements for initial working group ballot.

Discussed EZ Bucket for Comment Review.

Motion 2:

Motion to approve the responses for the EZ Bucket comments as found in the file

D0p4_EZcomments_draftorder_v2.pdf

Mover: Dave Abramson
Seconder: Fred Schindler

Technical, 75%
Y: 18 N: 0 A: 6

After the EZ bucket, there are 79 further comments to resolve.

Dave Abramson reminded people to use the comment tool and to review “Chad’s rule’s for submitting comments”. The Task Force is still learning how to best file comments to make the comment editing and resolution pain-free.

Began reviewing comments against draft 0.4.

Recessed at 15:03

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Reconvened at 15:26

Continued addressing comments against draft 0.4.

resolved 33 non-EZ bucket comments today.

decided to reconvene Wednesday morning at 08:00.

Recessed for the day at 17:24

Reconvened Wednesday May 20, 2015 at 08:03

Started back in on comments resolution.

Discussion on comment 42.

Quick show of hands failed to indicate a strong support for the comment.

Further discussion occurred.

26 comments left after looking through all comments.

Lennart Yseboodt presented a new table for allowed permutations (comment 112).

comment 112 resolved.

Yair Darshan presented on Derivation of: Pclass_PD for Class 5-8; Updated remedy for Equation 33-12 and Table 33-18 item 7; and updated resolution for comment #20.

Discussion occurred.

Resolved 3 comments.

22 comments remain.

Recessed at 10:23

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Reconvened at 10:45

10:45 - Lennart Yseboodt Presentation on 4P MPS.

Discussion.

11:18 - Yan Zhuang Presentation regarding MPS for Type 1/2 PSE.

Discussion.

11:25 - Yan Zhuang Presentation regarding MPS for .3bt PSE.

Discussion.

11:29 - Yair Darshan Presentation on MPS Baseline Text.

Discussion.

Resolved comments: 18, 35, 28.

19 Comments remain:

recessed 11:54

- - -

reconvened at 13:15

13:15 - Lennart Yseboodt Presentation on Additional Baseline Text for Autoclass.

Discussion.

Continued comment resolution.

Briefly viewed the 18 comments that are left.

16 now are left.

13:38 - Dave Dwelley presentation on Matching PD Classification.
Discussion.

Continued addressing comments.

14 comments remain.

14:45 - Yair Darshan presentation on updating Table 33-1.

Resolved further comments.

12 comments remain.

Break at 14:56

reconvened at 15:15

15:15 - Presentation by Fred Schindler "Extending Power via MDI for IEEE802.3BT part-2":
http://www.ieee802.org/3/bt/public/may15/schindler_3bt_01_0515.pdf .

Discussion.

A second presentation by Fred Schindler, baseline for previous presentation:
http://www.ieee802.org/3/bt/public/may15/schindler_3bt_02_0515.pdf

Discussion.

Motion 3:

Move to accept text from slide 6 to 7 of Schindler_3bt_02_0515.pdf as IEEE802.3bt text within clause 33.

Mover: Fred Schindler

Secunder: Yair Darshan

Technical, 75%

Y: 25 N: 0 A: 10

Returned to resolving comments.

8 Comments remain.

16:00 - George Zimmerman presented on PI – Definition – Comment 141, Maintenance Request 1273:
http://www.ieee802.org/3/bt/public/may15/zimmerman_3bt_03_0515.pdf

Comment resolved.

16:15 - 4PID AdHoc report/presentation by George Zimmerman.

George Zimmerman presented on 4PID – Proposed Baseline Text

Meeting scheduled to resume at 08:00 Thursday morning.

Recessed for the day at 17:43

Reconvened Thursday, May 21 2015 at 08:01

8:04 - Dave Abramson presentation regarding connection check.

Discussion.

Show of hands regarding whether people would like David to move forward with continuing to work on it. General consensus was to move forward with working on it.

Briefly looked at remaining comments: 139, 61, 123, 104, 142, 103, 137.

Comment 137 addressed.

6 comments remain.

8:38 - Presentation by David Dwelley regarding 360uF

Dave Dwelley displayed a straw poll.

Chair asked the room and seemed there was no objection to 180 μ F across both pair-sets.

Straw Poll

- I prefer:

15 Change maximum PD cap to 180 μ F without internal PD inrush

0 Allow foldback for Types 3 / 4 while requiring Cpd_max to be charged within Tinrush (max)

0 Allow both

0 No changes to the text

9:11 - Lennart Yseboodt Presentation.

http://www.ieee802.org/3/bt/public/may15/yseboodt_3_0515_rev110.pdf

9:18 - Lennart Yseboodt Baseline Presentation:

http://www.ieee802.org/3/bt/public/may15/yseboodt_0515_PSE_Polarity_baseline_rev320.pdf

Motion 4:

Motion to approve yseboodt_0515_PSE_Polarity_baseline_rev320.pdf as baseline text for P802.3bt

Mover: Lennart Yseboodt

Seconder: Yair Darshan

Technical, 75%

Y: 20 N: 0 A: 9

9:25 - Presentation Yan Zhuang:

http://www.ieee802.org/3/bt/public/may15/zhuang_03_0515.pdf

Discussion.

9:57 - Presentation: Lennart Yseboodt on Minimum PD Voltage

http://www.ieee802.org/3/bt/public/may15/yseboodt_2_0515_rev110.pdf

Discussion.

Addressed comment number 103.

plan is to reconvene at 10:40

recessed at 10:25.

reconvened at 10:44.

10:44 - Wael Diab Layer 2 Ad Hoc review presentation.

Discussion.

Straw Poll:

I am interested in using a Watchdog feature via LLDP as described in the L2 Ad hoc report.

Y: 3 N: 4

Features in the presentation were discussed.

Discussion regarding the Power Price related field(s) in the TLV. The L2 Ad Hoc presentation indicates a general description and an additional link which may be helpful.

Recessed 12:04

Resumed at 13:30

Comment resolution continued.

5 comments remain: 139, 61, 123, 104, 142

resolved comment 61

resolved comment 123

resolved comment 104

14:07 - Presentation by Chris Dominico regarding cabling.

14:20 - PSE State Diagram Update presentation by Dan Dove:

http://www.ieee802.org/3/bt/public/may15/dove_3bt_01_0515.pdf

Discussion

14:30 - Presentation by Yair Darshan: Derivation of PSE and PD PI Rmax, Rmin in order to meet system worst case End to End Pair To pair effective resistance unbalance.

Discussion

14:42 - One additional presentation by Masood Shariff Potential Regulatory Impacts with broad market potential
Significant discussion occurred.

Recessed 15:24

- - -

Resumed at 15:44

Two comments remain. Both are maintenance requests and these will both be carried forward.

141 out of 143 comments were closed at this meeting.

4PID presentation George Zimmerman.

Discussion.

Motion 5:

Move to accept text on pages 2-11 in zimmerman_3bt_02c_0515.pdf as baseline for P802.3bt

Mover: George Zimmerman

Seconder: Dave Dwelley

Technical, 75%

Y: 23 N: 0 A: 9

Motion 6:

Move to adopt the state diagram material presented in dove_3bt_01_0515 as follows;

a) Re-label PSE State Diagram in 802.3-2012 to reflect Type 1 and Type 2 PSE State Diagram

b) Adopt the new PSE State Diagram material into Clause 33 labeled to reflect “Type 3 and Type 4 PSE State Diagram”

c) The editor will be given license to make appropriate changes to fulfill this adoption of material and include an editor’s note “This State Diagram is intended to reflect Types 1 and 2 functionality and be expanded to include functionality for Types 3 and 4”.

Mover: Dan Dove

Seconder: George Zimmerman

Technical, 75%

Y: 23 N: 0 A: 8

Motion 7:

Move to direct the editor to create Draft 1.0 by incorporating the comment database and motions passed in Pittsburgh in preparation for a comment cycle starting no later than May 31, closing Monday June 8 noon PT.

Mover: Dave Abramson

Seconder: Christian Beia

Technical, 75%

Y: 32 N: 0 A: 1

Wael Diab discussed cabling related information that would be helpful to communicate across Layer 2.

A potential letter to request information was shown.

This letter was determined to be sent as an informal communication to TR42.7 and SC25 WG3.

Motion 8:

Move to instruct Chair to send communication to TIA TR42.7 and ISO/IEC JTC 1/SC25/WG3 with editorial license

Mover: Wael Diab

Seconder: Lennart Yseboodt

Procedural, 50%

Passes by voice without opposition

Move to adjourn

M: Fred Schindler

Passed by voice without opposition

Adjourned at 17:31 on May 21, 2015

4PPoE Task Force Attendance

Initial to indicate attendance

Name	Employer	Affiliation	5/19	5/20	5/21	5/22
Chad Jones	CISCO	CISCO	CNT	CNT	CNT	
CHRISTIAN BEIA	STMicroelectronics	STMicroelectronics	CB	CB	CB	
Yan ZHUANG	Huawei	Huawei	YZ	YZ	YZ	
Peter Scruton	UNH-IOL	UNH-IOL	PS	PS	PS	
⁵ Craig Chabot	UNH-IOL	UNH-IOL	CC	CC	CC	
Dylan Walker	Cisco	Cisco	DW	DW	DW	
Chris Bullock	Cisco	Cisco	CB	CB	CB	
Yair Darshan	MSCC	MSCC	YD	YD	YD	
IS MAIL JORIO	BROADCOM	BROADCOM	IJ	IJ	IJ	
¹⁰ Patrick (Poldi) Rimbom	microsemi	microsemi	PR	PR	PR	
JEAN PICARD	TI	TI	JP	JP	JP	
Miklos Lukacs	Silicon Labs	Silicon Labs	Luk's	Luk's	Luk's	
Wobric Chantreault	TDK	TDK	LC	LC		
Andy Gardner	Linear Technology	Linear Technology	AGS	AGS	AGS	
¹⁵ Dan Down	DNS	LTC	DD	✓		
Rick Frosch	PHiHong	PHiHong	RF	RF	RF	
Matthias Wendt	Philips	Philips	MW	MW	MW	
LENNART YSEBROOT	PHILIPS	PHILIPS	LY	LY	LY	
David Tremblay	HP	HP	DT	DT	DT	
²⁰ DALE DWELLEY	LTC	LTC	DWD	DWD	DWD	

4PPoE Task Force Attendance

Initial to indicate attendance

Name	Employer	Affiliation	5/19	5/20	5/21	5/22
Fred Schindler	Seen Simply	Bacon CSO TXN	FS	FS	FS	
David Abramson	TI	TI	DA	DA	DA	
Farid Hamidy	Pulse	Pulse	FH	✓	FH	
Geoff Thompson	GRACASISA	Linear <small>WAS PRESENT</small>	G	✓	G	
⁵ PETER Johnson	SIFOS	SIFOS	PJ	✓	PJ	
Matthew Ceglia	IEEE SA	IEEE SA	MC	✓		
Fred Dawson	Dubowitz/Kennedy SAKE		FD	✓	FD	
SHARAH FELDMAN	MICROSEM I	MICROSEM I	SF	✓	SF	SF
Andy Charet	UNH-TEL	UNH-TEL	AC	✓	AC	
¹⁰ Bob Lounsbery	Rockwell Automation	Scie		✓	RL	
Matthias Fritsche	HARTING	HARTING		✓	MF	
DAVE HESS	CORD DATA	INDEPENDENT		✓	DH	
YANOV Belopolsky	Stewart	Stewart		✓	YB	
Victor Rantania	Bal / TRP	Bal / TRP		✓	VR	VR
¹⁵ Theo Brillhart	Fluke	Fluke		✓	TB	
STEVE SCALIO	Foxconn	FOX Conn		✓	SS	SS
JOHN HESS	BEL	BEL		✓	JH	
George Zimmerman	CME Consulty	LTC & Comscope, Agvanta		✓	GZ	GZ
Shadi AbuGhazaleh	HUBBELL	HUBBELL		✓	SA	SA

4PPoE Task Force Attendance

Initial to indicate attendance

Name	Employer	Affiliation	5/19	5/20	5/21	5/22
PAUL FREEBURN	AVAYA		X	PF	PF	
STERLING MADEN	VADEN ENT SURTEC IND	SURTEC IND		SV	SV	
JON LEWIS	DELL	DELL		o	o	
Dennis Koantz	DuPont	DuPont			DTK	DEE
5 MASOOD SHARIFF	COMMSCOPE	COMMSCOPE		MS	MS	
THUYEN DINH	PULSE	PULSE			TD	
Bryan Morritt	Commscope	Commscope			BSM	
Bernd Morrmeyer	Phoenix Contact	sawo			ll	
WAZL DIAS	HUAWEI	HUAWEI			WD	
10 Paul Vanderwaan	Berk-Tek LLC	Berk-Tek LLC			PTW	
BRYAN SPARROWHAWK	LEVITON	LEVITON			so	
RICHARD MEI	COMMSCOPE	COMMSCOPE			RM	
15						
20						