Meeting Minutes: IEEE 802.3bt DTE Power via MDI over 4-Pair Task Force May 24-26, 2016 Whistler, BC, Canada Prepared by Dylan Walker

Interim meeting of the IEEE 802.3bt DTE Power via MDI over 4-Pair Task Force convened at 8:00 AM, Tuesday, May 24th, 2016 by David Abramson, 802.3bt Task Force Vice Chair, Comment Editor, and stand-in for Chad Jones, 802.3bt Task Force Chair.

Dylan Walker appointed acting recording secretary for the session.

Presentation: Meeting Agenda (agenda_0516.pdf)
Presenter: David Abramson, Comment Editor

Motion #1: Approve the agenda for May 2016 Task Force meeting (agenda_0516.pdf)

M: Lennart Yseboodt S: Yair Darshan

Passes by voice without opposition (Procedural > 50%)

Mr. Abramson called for introductions and affiliations, and the participants introduced themselves.

Motion #2: Approve the minutes from March 2016 M: Yair Darshan S: Lennart Yseboodt

Passes by voice without opposition (Procedural > 50%)

At 8:10 AM, Mr. Abramson asked if anyone was attending from the press, including those who would run a public blog on this meeting. None responded. Mr. Abramson noted that there should be no recording or photography without permission. Mr. Abramson reviewed the goals for the meeting, access to the reflector and website, and ground rules. Mr. Abramson advised the group to track their attendance in the IMAT attendance tool. Mr. Abramson showed and read aloud Patent Policy slides #1 through #4 from agenda 0516.pdf.

At 8:12 AM, Mr. Abramson made the call for potentially essential patents. None responded.

Mr. Abramson completed review of the Meeting Agenda presentation. At 8:14 AM, Mr. Abramson moved on to Comment Resolution. During the course of comment resolution, comments relating to presentations were postponed until after a first pass of the comments.

BREAK AT 10:25 AM, RECONVENED AT 10:45 AM. Mr. Abramson resumed comment resolution.

Down to 34 more comments to review.

RECESSED FOR LUNCH AT 12:13 PM, RECONVENED AT 1:30 PM.

The TF resumed comment resolution.

BREAK AT 2:57 PM, RECONVENED AT 3:20 PM. The TF starts presentations pertaining to comments.

Presentation: (3:20 PM - 3:30 PM)

Title: Proposed remedy for comment 11 (darshan_14_0516.pdf)

Presenter: Yair Darshan, Microsemi

Discussion: Revolved around how best to specify system stability requirements.

At 3:46 PM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "darshan_14_0516.pdf".

Presentation: (3:50 PM - 3:53 PM)

Title: Proposed remedy for Comments 107, 124, 41, and 15 (darshan_11_0516.pdf)

Presenter: Yair Darshan, Microsemi

Discussion: How to deal with comments 107, 124, 41, and 15, all referencing Tcc.

At 3:54 PM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "darshan_11_0516Rev002.pdf".

Presentation: (3:58 PM - 4:05 PM)

Title: PSE State diagram introduction text (yseboodt 06 0516 sdintro.pdf)

Presenter: Lennart Yseboodt, Philips

Discussion: Introductory text for PSE state diagram, and how to specify our order of operations

without affecting the rest of 802.3.

At 4:13 PM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "yseboodt_06_0516_sdintro.pdf".

Presentation: (4:25 PM - 4:33 PM)

Title: Table_33-28_and_Table 33-27_updates (darshan_01_0516.pdf)

Presenter: Yair Darshan, Microsemi

Discussion: Updates to PSE and PD inrush parameter values and text.

At 4:41 PM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "darshan 01 0516Rev6.pdf".

Presentation: (4:45 PM - 4:47 PM)

Title: Timing diagrams (lukacs_01_0516T_tmings.pdf)

Presenter: Miklos Lukacs, Silicon Labs

Discussion: Adding timing diagrams to clarify autoclass and CC DET SEQ PSE SD pathways, and

where to add to them.

At 5:00 PM, it was determined that Miklos will work on more apt titles for the diagrams throughout the week so that comments can be closed based on the presentation before close of session.

Presentation: (5:04 PM - 5:07 PM)

Title: Proposed Remedy for 106 (darshan 09 0516.pdf)

Presenter: Yair Darshan, Microsemi

Discussion: Text that allows a PSE to issue more class events than the class that can be supported as long as a class reset is used to clear the PDs classification results.

At 5:15 PM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "darshan_09_0516Rev2.pdf".

RECESSED FOR THE DAY AT 5:17 PM. Will reconvene at 8 AM tomorrow.

DAY 2: WEDNESDAY MAY 25

Mr. Abramson reconvened the Task Force at 8:05 AM, Wednesday, May 25. The TF resumed presentations pertaining to comments.

Presentation: (8:11 AM - 8:26 AM)

Title: Fixing DLL and LLDP (schindler_3bt_01_05_16.pdf)

Presenter: Fred Schindler, Seen Simply

Discussion: Revolved around changes to DLL and LLDP.

At 8:34 AM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "schindler_3bt_01_05_16.pdf".

Presentation: (8:40 AM - 8:44 AM)

Title: Dual signature MPS SD (yseboodt_07_0516_power.pdf)

Presenter: Lennart Yseboodt, Philips Discussion: Fixing MPS state diagrams.

At 8:45 AM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "yseboodt 07 0516 power.pdf".

Presentation: (8:47 AM - 8:49 AM)

Title: Autoclass timing (yseboodt 08 0516 autoclass4.pdf)

Presenter: Lennart Yseboodt, Philips

Discussion: Refining autoclass parameters and picking up a change that was missed in a past

cycle.

At 8:50 AM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "yseboodt_08_0516_autoclass4.pdf".

Presentation: (8:53 AM - 8:56 AM)

Title: PSE State Diagram improvements (yseboodt 11 0516 psestatedia.pdf)

Presenter: Lennart Yseboodt, Philips

Discussion: Adding variables so that the PSE state diagram can reflect PD allocated power.

At 8:57 AM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "yseboodt_11_0516_psestatedia.pdf".

Presentation: (9:06 AM - 9:25 AM)

Title: Supporting Baseline for comment 56 (johnson 01 0516 Extended Pwr baseline v1.pdf)

Presenter: Peter Johnson, Sifos

Discussion: Clarifying that not all Class 6 and Class 8 PDs support extended power, and breaking

out the extended power text into dedicated sub-clauses.

At 9:26 AM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "johnson_01_0516_Extended_Pwr_baseline_v1.pdf".

Presentation: (9:29 AM - 9:31 AM)

Title: Updating 33 3 7 6 (darshan 03 0516.pdf)

Presenter: Yair Darshan, Microsemi

Discussion: Addressing the editor's note in "33.3.7.6 PD behavior during transients at the PSE

PI".

At 9:32 AM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "darshan_03_0516.pdf".

Presentation: (9:33 AM - 9:36 AM)

Title: Proposed remedy for comment 20 (darshan_15_0516.pdf)

Presenter: Yair Darshan, Microsemi

Discussion: Addressing the editor's note in 33.4.9.2 pertaining to midspan transmission

parameters.

At 9:37 AM, comment resolution resumed on comments related to this presentation.

Presentation: (9:38 AM - 9:39 AM)

Title: Proposed remedy for comment 216 (darshan_12_0516_remedy_for_216.pdf)

Presenter: Yair Darshan, Microsemi Discussion: Remedy for comment #216.

At 9:40 AM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "darshan 12 0516 remedy for 216.pdf".

Presentation: (9:40 AM - 9:41 AM)

Title: Proposed remedy for comment 44 (darshan_16_0516_remedy_for_comment_44.pdf)

Presenter: Yair Darshan, Microsemi Discussion: Remedy for comment #44.

At 9:43 AM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "darshan_16_0516_remedy_for_comment_44.pdf".

Presentation: (9:45 AM - 9:51 AM)

Title: Proposed remedy for comment 54 (darshan 13 0516.pdf)

Presenter: Yair Darshan, Microsemi Discussion: Remedy for comment #54. At 9:57 AM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "darshan_13_0516.pdf".

At 10:02 AM, comment resolution resumed on comments 112, 113, and 114.

Presentation: (10:04 AM - 10:08 AM)

Title: LLDP & Extended power (yseboodt_01_0516_lldpext.pdf)

Presenter: Lennart Yseboodt, Philips

Discussion: Changes to LLDP variables for extended power.

At 10:14 AM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "yseboodt 01 0516 lldpext.pdf".

Presentation: (10:18 AM - 10:21 AM)

Title: PD Signature (yseboodt 03 0516 pdsig.pdf)

Presenter: Lennart Yseboodt, Philips

Discussion: How single- and dual-signature PDs should be further defined.

At 10:29 AM, comment resolution resumed on comments related to this presentation.

BREAK AT 10:40 AM, RECONVENED AT 11:01 AM. The TF continues presentations pertaining to comments.

Presentation: (11:04 AM - 11:06 AM)

Title: PD Legacy state machine issues (yseboodt_05_0516_pdsmlegacy.pdf)

Presenter: Lennart Yseboodt, Philips

Discussion: Revolved around whether issues in the legacy PD state diagram should be fixed or

not.

At 11:18 AM, comment resolution resumed on comments related to this presentation.

Presentation: (11:20 AM - 11:31 AM)

Title: Editor Note 2 page 105 (darshan 04 0516.pdf)

Presenter: Yair Darshan, Microsemi

Discussion: Addressing Editor's Note #2 in 33.2.8.

RECESSED FOR LUNCH AT 12:01 PM, RECONVENED AT 1:15 PM. Chad Jones resumes role as Chair and thanks Mr. Abramson for excellently running the meeting in his absence.

The TF continues presentations pertaining to comments.

Presentation: (1:18 PM - 1:27 PM)

Title: Revision 33.2.8.4 (yseboodt_02_0516_power.pdf)

Presenter: Lennart Yseboodt, Philips Discussion: PSE & PD power baseline.

At 1:28 PM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "yseboodt_02_0516_power.pdf".

Presentation: (1:32 PM - 1:36 PM)

Title: PD transients (yseboodt_09_0516_pdtransient.pdf)

Presenter: Lennart Yseboodt, Philips

Discussion: Simplification of the PD transient requirements.

At 1:40 PM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "yseboodt_09_0516_pdtransient.pdf".

Presentation: (1:47 PM - 1:53 PM)

Title: dual_signature_PD_baseline (darshan_06_0515.pdf)

Presenter: Yair Darshan, Microsemi

Discussion: Baseline text for dual-signature PD state diagram.

At 1:54 PM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "darshan_06_0515.pdf".

Presentation: (1:58 PM - 2:01 PM)

Title: Supporting Baseline for comment 13 (Bennett_1_0516.pdf)
Presenter: Yair Darshan, Microsemi on behalf of Ken Bennett, Sifos

Discussion: Changes to baseline text for the first two paragraphs of 33.3.7.10.

At 2:04 PM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "bennett 1 0516.pdf".

Presentation: (2:09 PM - 2:50 PM)

Title: MPS test conditions guidelines due to PSE dv dt (darshan_10_0516.pdf)

Presenter: Yair Darshan, Microsemi

Discussion: Erroneous MPS handling due to PSE transients.

At 2:51 PM, comment resolution resumed on comments related to this presentation.

BREAK AT 2:52 PM, RECONVENED AT 3:10 PM. The TF returns to comments left open for further action yesterday.

At 4:28 PM, the TF is back to presentations that relate to comments.

Presentation: (4:28 PM - 4:45 PM)

Title: DLL Classification PSE Power Increase (tremblay_1_0516.pdf)

Presenter: David Tremblay, HPE

Discussion: Clarifying that DLL can be used to increase the power allocation up to the physical

layer classification.

Motion #3: Adopt proposed baseline text in tremblay_01_0516_rev02_03, evaluate PSE_NEW_VALUE conditions and update to include power increase in Fig 33-49.

M: David Tremblay S: Yair Darshan

Yes: 15 No: 0 Abstain: 4 Motion passes.

At 4:50 PM, Mr. Jones reviewed the liaison letter from TIA TR42, found here:

http://ieee802.org/3/bt/public/may16/TR42-2016-06-062%20Outgoing%20Liaison%20to%20IEEE%20802p3bt.pdf

Presentation: (4:57 PM - 5:03 PM)

Title: Fixing DLL and LDDP Part-2 (schindler_3bt_02_05_16.pdf)

Presenter: Fred Schindler, Seen Simply

Discussion: DLL items that are still being investigated.

RECESSED FOR THE DAY AT 5:04 PM. Will reconvene at 8:30 AM tomorrow.

DAY 3: THURSDAY MAY 26

Mr. Jones reconvened the Task Force at 8:30 AM, Thursday, May 26. The TF resumed comment resolution.

Presentation: (8:43 AM - 9:03 AM)

Title: Modified proposal for 33.3.7.3 v002 (Modified proposal for 33.3.7.3.docx)

Presenter: Yair Darshan, Microsemi

Discussion: Concerns regarding PD inrush text.

Presentation: (9:05 AM - 9:13 AM)

Title: PD Inrush 33.3.7.3 cleanup v131 (pdinrush_baseline_d1p7.pdf)

Presenter: Lennart Yseboodt, Philips

Discussion: Further honing of the PD inrush text.

At 9:14 AM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "yseboodt 10 0516 pdinrush.pdf".

Presentation: (9:16 AM – 9:19 AM)

Title: Updating_33_3_7_3 (darshan_02_0516Rev004.pdf)

Presenter: Yair Darshan, Microsemi Discussion: More inrush text modification.

At 9:19 AM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "darshan_02_0516Rev004.pdf".

Presentation: (9:22 AM – 9:46 AM)

Title: State diagram solution for comments #115 and #130

Presenter: David Stover, Linear Technology

Discussion: Handling class currents in excess of IClass LIM in PSE state diagram.

Presentation: (9:50 AM – 9:58 AM)

Title: PSE 4P requirements (yseboodt_04_0516_pse4p.pdf)

Presenter: Lennart Yseboodt, Philips

Discussion: Behavior of PSEs in response to a fault during 4-pair operation.

Presentation: (10:00 AM - 10:22 AM)

Title: Type_3_and_Type_4_protection (darshan_05_0516.pdf)

Presenter: Yair Darshan, Microsemi

Discussion: Behavior of PSEs in response to a fault during 4-pair operation.

BREAK AT 11:00 AM, RECONVENED AT 11:18 AM.

At 11:23 AM, a straw poll was held.

Straw Poll #1: I support forwarding the draft to Working Group in July 2016.

Y: 19 N: 1

At 11:32 AM, the TF resumed comment resolution.

RECESSED FOR LUNCH AT 11:48 AM, RECONVENED AT 1:18 PM.

Presentation: (1:19 PM – 1:43 PM)

Title: NFPA70 and PoE (zimmerman_3bt_01_0516.pdf)

Presenter: George Zimmerman, CME Consulting

Discussion: Potential NFPA 70 changes and associated NITMAMs.

At 1:44 PM, a straw poll was held.

Straw Poll #2:

I would support NITMAMs: 31

NITMAMs to delete changes 79 (Ampacity table 725.144)

84 (LP Cabling text)

85/105 (Communications Equipment)

NITMAM to amend change to communications equipment (76)

I would oppose all of the above and support the proposed changes (pick no others): 1

I abstain (pick no others): 3

At 1:53 PM, a straw poll was held.

Straw Poll #3: If the proposed second revisions stay as they are, I would consider removing Class 7 and Class 8 from IEEE P802.3bt.

Y: 5 N: 14

Don't know: 14

At 2:01 PM, comment resolution resumed.

Presentation: (2:08 PM - 2:13 PM)

Title: Timings baseline (lukacs_01_0516_timings_baseline_rev5.pdf)

Presenter: Miklos Lukacs, Silicon Labs Discussion: Timing diagrams for an annex.

At 2:14 PM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "lukacs_01_0516_timings_baseline_rev5.pdf".

At 2:15 PM, comment resolution resumed.

Presentation: (2:31 PM - 2:58 PM)

Title: PSE state diagram updates for IClass LIM handling

Presenter: David Stover, Linear Technology

Discussion: New PSE state diagram variables, logic, and arcs for IClass_LIM handling.

BREAK AT 3:00 PM, RECONVENED AT 3:17 PM.

At 3:17 PM, comment resolution resumed.

Presentation: (3:29 PM – 3:54 PM)

Title: PD Signature v130 (yseboodt 03 0516 pdsig.pdf)

Presenter: Lennart Yseboodt, Philips

Discussion: Definitions for single- and dual-signature PDs.

At 3:55 PM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "yseboodt 03 0516 pdsig.pdf".

Presentation: (3:57 PM – 4:24 PM)
Title: PD inrush (darshan_18_0516.pdf)
Presenter: Yair Darshan, Microsemi
Discussion: PD inrush considerations.

At 4:25 PM, comment resolution resumed on comments related to this presentation. See database for comments tagged with "darshan_18_0516.pdf".

At 4:26 PM, comment resolution continued.

Presentation: (4:46 PM – 4:48 PM)

Title: Legacy PD state diagram maintenance v112 (yseboodt_05_0516_pdsmlegacy.pdf)

Presenter: Lennart Yseboodt, Philips

Discussion: Fixes to the legacy PD state diagram.

Motion #4: Move to reopen comment 147 for reconsideration

M: Lennart Yseboodt S: Dave Abramson

Yes: 19 No: 0 Abstain: 2 Motion passes. At 4:50 PM, comment #147 was resolved. See database for comments tagged with "yseboodt_05_0516_pdsmlegacy.pdf".

At 4:57 PM, the TF reviewed a liaison letter to the NFPA.

Motion #5: Move that the Chair presents the liaison letter to NFPA and SCC18 to the Working Group.

M: George Zimmerman S: Lennart Yseboodt

Yes: 22 No: 1 Abstain: 0 Motion passes.

Motion #6: Move to hold a comment cycle on D1.8 starting no later than June 13, 2016 and closing July 10, 2016, 11:59pm AOE.

M: David Abramson S: Lennart Yseboodt

Procedural, 50%

Passes by voice without opposition.

CLOSING BUSINESS

Having completed the presentations and comment resolution business for the meeting. No further motions of business were offered.

ADJOURNMENT

Motion to adjourn the meeting.

M: David Abramson

MOTION PASSES by voice without opposition.

The meeting was adjourned at 5:24 PM, Thursday, May 26, 2016.

4PPoE TaskForce Attendance

Name 4PPoE TaskForce Att	Employer	Affiliation	5/24	5/25	5/26	5/27
	Limpioyer					
David Abramson	david abransongtica	TE	Da	Aa	La	
Fred Schindler	Seen Simply	Stradem, Cisco, TI	Zff	1PS.	IP)	,
PETER JOHNSON	SIPOS	SIROS	My	Pan	*	
Yail Darshan	Mic rosemi	Microsem"		3	1	
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CHRISTIAN BEIA	Stylicroelectronics	STHICroplectionics	æ	B	B	
David Tremblay	Hewlett Packard Enterprise	Hewlett Packard Enterprise	DI	DV	DI	
Phillip Brownlee	TOK	TOK	PB	PB	PB	
10 Chris Bullock	Cisco	Cisco	CB	B	B	
Dylan Walker	Cisco	Cisco		DU		
Rick FRosett	PHilton	PHilton.	NA	RF	ME	
Craig Chabot	UNHI-POL	UNH-TOL	CLC	CIC	CLC	
Gloze Unmenne	CME Consulty	Commstaye/Cisco/	Mis	Alls.		
15 Valene maguire	The Ferron Co.	Me Senon Co	w	UN	S	`
BRYAN SPARROWHAUXC	LEV1700	LEVITOR	8	1		
OSTERLING VADEN	SURTEC	SURTEC	SI	SV	SV	
JON LEWIS	DELL	DELL	or	02	N	
DAVID STOVER	LTC	LTC	DMS	DMS	Oms	
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4PPoE TaskForce Attendance

4PPoE TaskForce Att	endance				- 10.5	
Name	Employer	Affiliation	5/24	5/25	5/26	5/27
JEAN PICARD	T	Ti`	AB.	P	P	
FRED DANSON	CHONOURS	Chenours	H.	Th.	A	
SHATIAR FELDMAN	MICLOSEMI	MICHOSEMI	Sf	SE	SF	
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5 PETE CIBULA	INTOL	INTEL				
Miklos Lukacs	Sili con Labs	Silicon Labs	Luhus Vihles	Likis	Lulius Fulls	
Paul Vanderlaun	Berk-Tek LLC	Berk-TEKUC		1	120	
Andy Gardner	LTC	LTC 7	AB	AJ6	AE	
Bryan Mother	Commseque	Comm scope	I .		1	
10 Good Thompson	GRASISA	(ndependent	5	9	2	
Mohammad Ahmed	TE Connectinity	TE Connectivity	MA	MA	MA	
WARL DIAS	HUKWET	NUME	with.	RW	Pu	
Stephen Johnson	UNH-IOL	UNH-IOL	SJ	SJ		
HARTES WASHG	Huaves	Hues	gr	2		
15 Ardeshir Mohammondian	Bro Cade	Brocale		AM	AM	
Victor Rantaria	Bel Fusa	Bul /TRP		UR	VR	
BRAN SAMOREWANTE	UN LEVITOR	10000		the		
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4PPoE TaskForce Attendance

4PPoE TaskForce Att		A CCITE	5/24	5/25	5/26	5/27
Name	Employer	Affiliation	3/21	3/23	0/20	0,2.
German Feyh	broad com	Broadcom	į.		85	
Steve Carlson	HSD	Maruell, Bosch			SE	/
AMRIK BAINS	asco	CISCO			An	
CLARK GARTY	CISCO	C (SCO			CAC	
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