IEEE802.3bt Kanata September 2014 Meeting Minutes

Christian Beia

Wednesday September 10th

802.3bt task force in session at 10.30 AM.

- Motion to approve the Agenda moved by Matthias Wendt, seconded by Yair Darshan. Passes by voice with no opposition.
- Information in slides #1 to #4 of the patent policy were shown by the Chair
- Chair read the patent slides and made a call for patents with no response from the room.
- Motion to approve July minutes: moved: David Abramson; seconded: Matthias Wendt. Passes by voice without opposition.

Proceeded with presentations as per agenda.

- 10:57 AM Channel Pair To Pair Resistance Imbalance Adhoc Report Yair Darshan
- 11:07 AM Layer 1 Method to Detect 4PPoE Capable Legacy Type 1 & 2 PD Ad Hoc David Tremblay
- 11:10 AM Part A: Existing compliant PD implementations; Part B: Proposal for detecting Type 1/2 capable of 4P operation Yair Darshan

Session break at 11:53AM

Back in session at 1:01PM, continuing presentations

- Use Case Summary Faisal Ahmad
- 1:18 PM Unsticking the Ad Hoc (Info for Everyone) Geoff Thompson
- 1:33 PM IEEE P802.3bt Mutual Identification David Abramson
- 2:20 PM Classification Using Hysteresis Dave Dwelley

Session break at 2:57PM

Back in session at 3:17PM, continuing presentations

- 2-Level Classification Christian Beia on behalf of Gaoling Zou
- 3:30 PM Consideration on bt classification signature Yan Zhuang
- 4:00 PM PoE: Extended Power Matthias Wendt
- 4:42 PM DLL Classification Lennart Yseboodt
- Straw Poll w/Chicago rules:

I would support including the following classification schemes in 802.3bt:

```
Presentation 1 (Dave A – Multiple class currents)
Y:23

Presentation 2 (Dave D – Hysteresis)
Y:19

Presentation 3 (Gaoling – Two class voltage levels)
Y:6

Presentation 4 (Gaoling – PWM class)
Y:10
```

Thursday September 11th

802.3bt task force in session at 9:00AM. Presentations as per agenda

- Consideration on dual channel PD detection Hua Rui
- 9:41AM Clarifying Detection for 4PPoE David Abramson
- 9:55AM Current Limits Koussalya Balasubramanian

Session break at 10:30AM

Back in session at 10:46AM

- Preview of the motions Koussalya Balasubramanian
- 10.50AM Making 1-Channel PSEs Work Dave Dwelley

Session break at 12:17PM

Back in session at 2:01PM.

Motion 1 - Technical:

The BT project shall require a PSE to successfully complete a 4P-ID test before enabling power over all 4 pairs to Type 1 & 2 PDs.

- Mover: David Tremblay
- Seconder: Koussalya Balasubramanian
 - Y: 33; N: 0; A:1 motion passes

Motion 2 - Technical:

The BT project will include a physical layer test to qualify Type 1 & Type 2 PDs, including those in the installed base, to receive power over all 4 pairs. This would, in turn, allow a 4-pair PSE to transmit 4-pair power to a Type1 or Type2 PD that passes such a test, which shall be a conformant mode within BT.

- Mover: David Tremblay
- Seconder: Lennart Yseboodt
 - Y:29; N:0; A:5 motion passes

• Motion 3 - Technical:

The BT project shall create a 4P-ID adhoc to recommend the criteria to qualify Type 1 and Type 2 PDs to receive power over all 4 pairs.

Motion to amend motion 3:

- Mover: Geoff Thompson
- Seconder: Lennart
 - Y:21; N:4; A:5 motion passes

Amended Motion 3 - Technical:

The BT project shall create a 4P-ID adhoc to recommend the L1 test criteria to qualify Type 1 and Type 2 PDs to receive power over all 4 pairs.

Mover: David Tremblay

Seconder: Fred Schindler

■ Y:24 N: O A:9 – motion passes

Session break 3:01PM

Back in session at 3:20PM

Straw Poll:

Do you agree with this statement?

A valid Type3 or Type4 PD will present a signature resulting in the same classification at Alt-A and Alt-B. To clarify, this implies that T3 or T4 PDs cannot provide a different class signature on Alt-A then Alt-B and vice versa.

Y:13; N:7;

Motion 4 - Technical:

Move that IEEE 802.3bt, permit LLDP to be used as a method to provide the 4P-ID.

Note: The 4P-ID is covered in, schindler 1 0514.pdf, schindler 2 0514.pdf, darshan 3 0714.pdf.

- Mover: Fred Schindler
- Sec: Koussalya Balasubramanian
 - Y:31; N: 0; A:1; motion passes

• Motion 5 - Procedural:

Move that IEEE802.3bt accept the term "pair-set" and its definition as referring to either of the two valid 4-wire connections as listed in 33.2.3.

- Mover: David Abramson
- Seconder: Koussalya Balasubramanian
 - Y:30; N: 2; A:1; motion passes

Motion 6 - Technical:

Move to change text in 33.2.5 from:

- "The PSE shall turn on power only on the same pairs as those used for detection."

To:

- "The PSE shall turn on power only on the same pairs as those used for two-pair detection."
 - Mover: David Abramson
 - Seconder: Dave Dwelley
 - Y: 27; N: 1; A:5; motion passes

• Motion 7 - Technical:

Move to change text in 33.2.5.3 from:

- A PSE shall accept as a valid signature a link section with both of the following characteristics between the powering pairs ..."

To:

 A PSE shall accept as a valid signature a pair-set within a link section with both of the following characteristics, with an offset voltage up to Vos max and an offset current up to los max, as specified in Table 33-5" • Mover: David Abramson

• Seconder: Dave Dwelley

■ Y: 29; N:1; A:0; – motion passes

• Motion 8 - Technical:

Move to change the text in 33.2.5.4 from:

- "The PSE shall reject link sections as having an invalid signature, when those link sections exhibit any of the following characteristics between the powering pairs..."

To:

- "The PSE shall reject a pair-set within a link section as having an invalid signature when the pair-set exhibits any of the following characteristics as specified in Table 33–6:"
 - Mover: David Abramson
 - Seconder: Dave Dwelley
 - Y:31; N:0; A:2 motion passes

Motion 9 – Technical:

Move that IEEE 802.3bt specify two new types of PSE and PD as follows

- Type 3:0-60W

- Type 4: 0-99W

NOTE: The above power levels are at PSE

• Mover: Koussalya Balasubramanian

Seconder: David Abramson

■ Y:30; N:3; A:1 – motion passes

• Motion 10 – Technical:

Move that IEEE802.3bt PSEs shall measure current with respect to I_{inrush} , I_{cut} , I_{lim} and DC-disconnect per powered pair-set.

- Mover : Koussalya Balasubramanian
- Seconder: Dave Dwelley
 - Y:29; N:2; A:2 motion passes

Motion 11 – Technical:

Move to accept text in slide 7, 9 and 10 (Inrush Spec) of Balasubramanian_01_0914.pdf for IEEE802.3bt.

Mover : Koussalya Balasubramanian

Seconder: Dave Dwelley

■ Y:27; N:0; A:5 – motion passes

• Motion 12 – Technical:

Move to accept text in slide 12 (Icut Spec) of Balasubramanian_01_0914.pdf for IEEE802.3bt.

Mover: Koussalya Balasubramanian

Seconder: Dave Dwelley

■ Y:25; N:0; A:6 – motion passes

Motion 13 – Technical:

Move to accept text in slide 17 and slide 18 (Ilim Spec) of Balasubramanian_01_0914.pdf for IEEE802.3bt.

Mover : Koussalya Balasubramanian

Seconder: Yair Darshan

■ Y: 29; N: 0; A:4 – motion passes

- Yair Darshan asked the secretary to report this notes:
 - 1. The group will adopt the number proposed in "Updated baseline proposal for motion a tseptember meeting REV 005.doc"
 - 2. The group agrees that for end to end unbalance we are using the equation of the channel and not a single worst case number.
- Motion 14 Technical:

Accept "Updated baseline proposal for motion a tseptember meeting REV 005.doc" as baseline text.

Mover : Yair DarshanSeconder: Christian Beia

■ Y: 29; N: 0 ; A: 2 – motion passes

Session recessed at 5:32PM

Friday September 12th

802.3bt task force in session at 8.34AM. Presentations as per agenda:

- Classification signature of Type2 PD design Yan Zhuang
- 9:09 AM One PSE Polarity Lennart Yseboodt
 - Motions made and withdrawn, will work on consensus building for November.

Session Break 10:00AM

Back in session 10:15AM

- PSE PI and PD PI Pair to Pair Specifications Yair Darshan
- 11:12 PI Balance specifications Rev.02 Ken Bennett

11:12 Chair, Chad Jones has David Dwelley, become acting Chair.

11:16 Acting Chair, Dave Dwelley, restores Chad Jones, as Chair.

Session break at 11:44AM

Back in session 12:30PM

• Motion 15 - Technical

Accept slide 8 of "bennett_01_0914 rev 3.pdf"

Mover: Yair DarshanSeconder: Ken Bennet

■ Y:13 N:0 A:10 – motion passes

Chair notes that motion passes with apathy.

12:40PM Presentations as per agenda:

- Channel P2PRUNB Specification: comparison between specification alternatives Yair Darshan
- 12:49PM Channel Pair To Pair Resistance Unbalance (CP2PRUNB) (only cables and connectors) Analysis of ad-hoc proposed use cases Yair Darshan
- 12:59PM Mating and unmating under load Bernd Horrmeyer.
- 1:09PM group review of liaisons letters previously sent to ISO SC25 and to TIA TR42, confirming that we asked for Channel Unbalance.

TF Action items:

- To create a new liaison to ISO through recirculating proposal on the reflector in November based on information in Bernd Horrmeyer's presentation.
- "Pair-set" terminology: the group doesn't feel the need for a liaison.
- Ad hocs: The End to End Channel P2PRUNB adhoc, chaired by Yair Darshan and the Layer 1
 Method to Detect 4PPoE Capable Legacy Type 1 & 2 PD Adhoc, chaired by David Tremblay are concluded.
- The 4-Pair ID Adhoc has been chartered. George Zimmerman appointed as the Chair
- List of Use Cases: Faisal Ahmed to continue collecting from the group through the reflector.

• Motion 16 – Procedural

Instruct the editor to prepare a Draft 0.1 for TF preview on October 17

- Mover: George Zimmerman
- Seconder: Yair Darshan
 - Y:21; N:0; A:3 motion passes

• 1:30 PM Motion to adjourn

Passes by voice with no opposition

4PPoE Task Force Attendance Date: Sept 2014 Place initial for a Hendance

TITOL TASK FORCE	Attendance Date:		किर व जन्मस्य		
Name	Employer	Affiliation	9/10	9/11	9/12
David Tremblay	HP	HP	DI	PT	DT
David Tremblay DAVE DUELLE	VTZ	LTZ	PALAS	DWD	and
Yan ZHUANG	HW	HW.	V	V .	~
Rui Hua	WH	HW	V	V	V
Andy Gardner	LTC	LTC	AJV	AJZ	AJG
THUYEN DINH	PULSE	PULSE	V	V	V
SESHA PANGULURI	BROADLOM	BROADCOM			1
Bernd Hormeyer	Phoenix Contact	Phrenis Contact		Della	V
RICK FROSH	PHithoug	PHiHong			NA
Alex Seiger	UNH-IOL	UNH-IOL			AWS
Ken Bennett	STAC	5,405	V	KEB	MAS
Miklos Lukacs	Silicon Lubs	Silicon Labs	1	Luches	Lulus
Fred Schindler	Sean Simply	Sen Simply	/	IRI	18
David Abramson	TI	TI	V	Da	Da
Oavid Abramson Konssalya Bolasulskammian	cisco	Cisco	V	FAB.	A3.
JEAN PICARD	Ti	TI	1	1	1
CHADJONES	CISCO	Cisco	Cot	CMJ	Chit
YAIR Darshau	MSSC	MSCC		9	1
Valenemagure	Sieman	Siena		Oct	
Ardeshir Mohamadian	BroCade	BroCode		AI	

Please Initeal 4PPoE Task Force Attendance Date: Lept Toly **Affiliation** Name **Employer** 9/10 112 AKROSSILICON AKROSSILKONI FAISAL AHMAD LEWNART YSKIDOOT PAILIPS PHILIPS Rund van Bokhast Philips Philips Matthias Wendt Philips Philips Fairchild Fairchild James Lin MSCC MS (C Tail Darshan GeneralCable James Malkenus General Coble Christian Beig STMIGO STITLICRO Pierre-Philippe Stevens Microsomi Microsemi MICROSEMI MICROSEM! SHAHAR FELDMAN CISCO CISCO ANDREW MCCOUBREY Brocale Ardeshir Mohammadian BroCade Commsope/ Linear Tech geore Vimme men CME Consulty G-MABAD CHOUDHURY Commscope Commsere Dell Dell JON LEWIS PAUL KISH BELDED BELDEN VR Victor Ranteria Bal Fusa Bul Fusu Ardeshir Mohammadian Bookade B60 ande 0.7 HP David Law

Mc Canyon

HOLL DIM WIL

PANDUT

CMJ

4PPoE Task Force Attendance Date: Sept 2の4

4PPoE Task Force	for	for attendance			
Name	Employer	Affiliation	9/10	9/11	9/12
FRED DAISON	DaPort	Dulows		SA.	K
MARCOS HISIAD	WURTH ELEC	MONIO Milan		cell	
NEVEN PISCHL	BROADLON	BLOADCOR		1/1/2	
GEOFF THOMPSON	GEALCAS!	LINEAR		8	9
ALAN FLATHAN	LAN TECHNOLOGIE	s same			12
Peter Jones	Circo	Cilco			a
Pa-1 Vanderlaan	Berk-TEL	Berk-Tek			PW
Cortis Donahue	UNH-Ia	UNH-IOL			CKD
		-			
	7				
		=			
		1	1 1		L