IEEE P802.3cv 4-Pair PoE Maintenance 2nd Task Force review comments

o											
CI 79	SC 79	P 19	L23	# 1	C/ 145	SC 145.2	.5.7	P 23	L 40	# 3	
Tremblay,	David	Hewlett Packa	ard Enterprise		Yseboodt,	Lennart		Signify			
Comment	Type ER	Comment Status A		DLI	Comment	Type E	Co	omment Status A		Edi	litorial
Provid TLVs	le guidance to use	ers on how to resolve Type 1-2	2 and Type 3-4 ser	nding differnet length	"Figur be Fig	e 145-3 "Prim jure 145-15.	ary Alterna	tive dual-signature sen	ni-independent P	SE state diagram" sho	bluc
Suggestee	dRemedy				Suggestee	dRemedy					
Incluc table:	le the following				Chang Note: locatio	ge the Figure i I see you have on, but wrong	number, als Figure 14 Figure num	so in the editorial instru 5-15 in two locations ir nber;	nction on p23/line In the document: c	3. n page 23, in the corr	rect
Powe A	r Entity Power E B	ntity Power Entity Power E A Transmits B Trans	Entity Resolution		and or otherv	n page 26, wro vise.	ong locatior	n, but correct Figure nu	umber. They do s	eem the be identical	
Type Type Type	1-2 Type 1-2 1 3-4 Type 1-2 2 1-2 Type 3-4 1	2 octet TLV 12 octet TLV 9 octet TLV 12 octet TLV 2 octet TLV 29 octet TLV 9 octet TLV 20 octet TLV	12 octet TLV 12 octet TLV 12 octet TLV 20 octet TLV		Response ACCE	PT.	Res	sponse Status C			
Deenener	5-4 Type 5-4 2				C/ 145	SC 145.3	.3.3.5	P 25	L 4	# 4	
ACCE					Yseboodt,	Lennart		Signify			
ACCL		L.			Comment	Type E	Co	omment Status A		Edi	litorial
Perfo	rm the changes sp	pecified in:	-0		This F	Figure 145-14	should resi	ide in 145.2.5.7 as it is	part of the PSE	state diagram.	
nttp://	www.ieee802.org/	3/cq/public/nov19/802.3cv_d1	pu_comment_1_a	s_vz.pdf	Suggestee	dRemedy					
CI 79	SC 79.3.8.1	P 20	L 53	# 2	Move	this to 145.2.5	.7.				
Yseboodt,	Lennart	Signify			Response	•	Res	sponse Status C			
Comment	Type E	Comment Status A		Editoria	ACCE	EPT.					
There	is missing underl	ine in the Table 79-8a note, "3	3.3.7.1" needs un	derlining as well.		00.44		5.00			
Suggestee	dRemedy				C/ 145	SC 145.3	.3.3.5	P28	L1	# 5	
Fix pe	er comment.				Yseboodt,	Lennart –		Signify			
Response)	Response Status C			Comment	Type E	Cc	mment Status A		Edi	itorial
ACCE	EPT IN PRINCIPL	E.			Ihere	is a double ed	liting instru	iction.			
P:20 P:20	.:52: Add strikeou 53: Underline "3	ut to "33.3.8.1" 3.3.7.1"			Suggestee Repla	dRemedy ce line 1 by: "l	Modify Figu	ire 145-25 as follows:"			
0					Response		Res	sponse Status C			

C/ 145	SC 145.5.3.2.5	P 34	L 3	# 6	C/ 79	SC	79.3.2	F	'19	L 23	# 8	
Yseboodt, I	Lennart	Signify			Yseboodt,	Lennart		Sigi	nify			
Comment	Туре Е	Comment Status A		Editorial	Comment	Туре	т	Comment Statu	is A			DLL
There "Modif	are typos in the edi y Figure 145-41 to a	ting instruction: add assignement of ac_mea	seurement_comp	leted as follows:"	The E	ditor's N	lote asks t	for a clarifying note.				
Suggested	Remedy				Suggeste	uRemea	y wing in at	and of the notes				
"Modif	y Figure 145-41 to	add assignment of ac_meas	urement_complet	ed as follows:"	"Note TLVs	the folio some ir that hav	mplementa re greater	ations of the Power	VIA MDI T	LV in Type 1 and	Type 2 devices igr	nore
Also, t	hat entire line adde	d in IDLE should be underlir	ed.		In ord	er to be	interopera	ble with these imple	mentation	s, Type 3 and Typ	e 4 are permitted t	0
Response		Response Status C			send	either 29	octet TL	Vs (including the Ty	be 3 and T	Type 4 extension) of the second to the secon	or vno 4 PD dovicos	00n
ACCE	PT.				deteri	nine the	PSE Type	e based on the lengt	h of the fir	rst classification ev	/ent (see 145.3.7).	Carr
~	SC 445 7	Do 7	140	# -	Туре	3 and Ty	/pe 4 PSE	s can determine the	PD Type	based on the PDs	requested Class	(see
/ 145	30 145.7	F 37	L12	# /	145.2	.8 and 1	45.3.6.1)	or based on the leng	th of a rec	ceived Power via N	IDI TLV."	
rseboodt, l	Lennart	Signify		5/00	Response) 		Response Statu	s C			
comment	lype E	Comment Status A		PICS	ACCI		PRINCIPL	E.				
- Missi mainta least T	ng PIC (comes after in the PI voltage on Reset min before s	er PSE51) for "If the PSE re the corresponding pairset in starting a new detection cycl	turns to IDLE_PR the range of V R e."	I or IDLE_SEC, it shall eset for a period of at	Reso PROI Perfo	ution to POSED	Comment ACCEPT hanges sp	#1 is: IN PRINCIPLE.				
suggested	Remeay				http://	www.iee	e802.org/	3/cq/public/nov19/8)2.3cv_d1	p0_comment_1_8	_v2.pdf	
Response		Response Status C			C/ 145	SC	145.2.5.4	F	21	L 43	# 9	
ACCE	PT IN PRINCIPLE				Yseboodt,	Lennart		Sigi	nify			
A .1.1					Comment	Туре	т	Comment Statu	is A		Au	toclass
Add m	Issing PICs per col	mment.			The v	ariable 'a	ac_measu	rement_done' lacks	a descript	tion for the values.		
					Suggeste	dRemed	'y					
					Add t FALS TRUE to an	he follow E: The A E: An Au Autoclas	ring to ac_ Autoclass toclass m ss IDLE st	measurement_done measurement is not easurement is in pro ate	e: active and ogress or t	d the Autoclass me he state diagrams	echanism is IDLE are synchronising	back
					Response)		Response Statu	s C			
					ACCI	EPT IN F	PRINCIPL	E.				
					Apply	followin	g values to	o the variable "ac_m	easureme	ent_completed".		
					FALS TRUE synch	E: The A E: An Au Ironising	Autoclass toclass m back to a	measurement has r easurement has bee n Autoclass IDLE s	ot comple en complet ate.	ted. ted and the state d	iagrams are	
TYPE: TR/ COMMEN ⁻	technical required	ER/editorial required GR/ge atched A/accepted R/rejec	eneral required T/ ed RESPONS	technical E/editorial G/gen E STATUS: O/open W/writ	eral ten C/closed 2	/withdra	wn		Comm	nent ID 9	Page 2 of 11/13/201	5 9 2:50:2

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID

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C/ 145	SC 145.2.5.6	P 22	L23	# 10	C/ 145	SC 145.3.3.3.5	P 25	L19	# 11
Yseboodt,	Lennart	Signify			Yseboodt,	Lennart	Signify		
Comment	Туре Т	Comment Status A		Autoclass	Comment	Туре Т	Comment Status A		AutoClass
See A	UTOCLASS_CAN	CEL comment.			Label:	AUTOCLASS_CA	NCEL		
If that While returne	comment is adopte it is referenced by ed by that function.	ed, we will be using "P_Autoo the do_autoclass_measure f	class" in the state unction in 145.2.5	diagram. 5.6, it isn't acutally	the PS	When a PD can E needs to allocate power p	cels Autoclass (by drav	ving <4W during the and also with regard ¹	measurement period), to DLL treat the PD as if it
Suggested	dRemedy				never	requested Autoclass	3.		
1. Pull 2. Add	I 'do_autoclass_me d the following:	easure' into the draft.			the firs	The DLL behavi st class event.	or is controlled per the	'pd_autoclass" variab	ble, which is set during
P Aut	toclass: is the powe	rollowing variable: er measured by the PSE duri	ng Physical Laver	Classification as	Suggested	lRemedy			
define	ed in 145.2.8.2."				(note t in the	o editor, even thoug	h this comment is 'locat	ed' in 145.3.3.3.5, all	the changes are actually
ACCE	EPT.				Class	 Create a new "A variable that power during the 	variable "pd_autoclass indicates whether the P Autoclass measuremen	_canceled" in 145.2.5 D cancelled Autoclas t period.	5.4, with description: ss by drawing less than
						Values: FALSE: TRUE: The PD	The PD did not cancel requested Physical Lay	Autoclass or did not er Autoclass and car	request Autoclass. ncelled."
					145-13	2. Add "pd_auto 3).	oclass_canceled <= FAI	_SE" in the CLASS_I	=V1_LCE state (Figure
					MEAS	3. Insert a new s URE_ACS_DONE; a) Content of "	state "EVAL_ACS" betv with EVAL_ACS" is	veen MEASURE_AC	S and
						pd_autoclass END"	_canceled <= TRUE		
						b) Condition fr	OM EVAL_ACS to MEA	SURE_ACS_DONE	IS "UCT"
						4. Pull in the var a) Change the t "The value of th	riable "pse_initial_value' first sentence to read: his variable is valid after	from 145.5.3.2.2 inter- classification and is	o the draft. derived from the
					pse_a used i	llocated_pwr, pd_au n the PSE state diag b) In the 'values	itoclass, and pd_autocla grams in 145.2.5.7." s' change "pd_autoclass	<pre>iss_canceled variable s" to "pd_autoclass *</pre>	es (145.2.5.4), which is !pd_autoclass_canceled"
					Response		Response Status C		
					ACCE	PT IN PRINCIPLE.			
					1. Cre Class	eate a new variable " "A variable that 1 power during the Values: FALSE	pd_autoclass_canceled indicates whether the P Autoclass measuremen : The PD did not cancel	I" in 145.2.5.4, with d D cancelled Autoclas t period. Autoclass or did not	lescription: ss by drawing less than request Autoclass.
TYPE: TR	/technical required	ER/editorial required GR/ge	eneral required T	/technical E/editorial G/genera	I		Co	omment ID 11	Page 3 of 5

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TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID

	IE	EE P802.3cv	4-Pair PoE Maintenar	ce 2nd Task	Ford	e reviev	v comments			
TRUE: The PD reque	ested Physical Layer A	utoclass and can	celled."	C/ 145	SC	145.3.8.4	P3	2	L1	# 13
2. Pull in Figure 145- the CLASS_EV1_LCE state (F	13 into the draft. Add ' gure 145-13).	"pd_autoclass_ca	nceled <= FALSE" in	Yseboodt, L Comment T	ennart <i>Type</i>	т	Signit Comment Status	iy R		DL
3. Insert a new state ' MEASURE_ACS_DONE; with a) Content of "EVAL "IF Pautoclass <= 4 pd_autoclass_can END" b) Condition from E'	EVAL_ACS" between _ACS" is 0 THEN celed <= TRUE /AL_ACS to MEASUF	MEASURE_ACS	S and s "UCT"	Equatic They re accoun the unit <i>SuggestedF</i> Bring th	ons 145 efer to F t that of PD Remed	5-24 and 14 PDMaxPow MaxPower ¹ /y quations int	45-25 are off by a fac verValue in an equati Value is in deciwatts. to the 802.3cv draft.	ctor 10 i on that	in the BT spec. results in "Watts"	, but fails to take into
4. Pull in the variable	"pse initial value" fror	n 145.5.3.2.2 into	the draft.	Divide e	each ir	nstance of	PDMaxPowerValue a	and PD	MaxPowerValue_r	mode(X) by 10.
A) Change the first s	entence to read:			Response			Response Status	С		
<pre>pse_allocated_pwr, po_autoclas used in the PSE state diagrams b) In the 'values' char Cl 145 SC 145.3.3.3 Yseboodt, Lennart Comment Type T Con (See AUTOCLASS_CANCEL a When a PD cancels a of a non-Autoclass PD with reg Currently a PD would the PSE state and a provide a provide a provide Currently a PD would</pre>	s, and po_autoclass_ in 145.2.5.7." nge "pd_autoclass" to P30 Signify mment Status A as main comment.) Autoclass (using pd_ar ards to DLL. send 0xACAC as PDI	"pd_autoclass * ! <i>L</i> 14 cs_cancel), it sho RequestedPower	s (145.2.5.4), which is pd_autoclass_canceled" # 12 Autoclass uld also follow the rules Value and confusion on	Althoug correct	gh the F	PDMaxPow erted to Wa	verValue and PDMax atts by the equations	Power\ 145-24	/alue_mode(X) are 4 and 145-25.	e in deciwatts the value is
line PSE side would ensue.										
 Add the variable "pd_initial_va For that variable, change the fi "The value of this variable is val pd_acs_cancel, and pd_autoclass_en defined in Figure 145-25." In the values, chang !pd_acs_cancel" 	lue" in sublclause 145. rst sentence to read: id after classification a able variables (145.3.3 e "pd_autoclass_enab	.5.3.3.1 to the dra nd is derived from 3.3.2) used in the le" to "pd_autocla	ft. n the pd_max_power, PD state diagrams; nss_enable *							
Response Res	oonse Status C									

Response

ACCEPT.

DLL

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C/ 145	SC 145.3.8.4.1	P 32	L 36	# 14	C/ 145	SC 145.5.3.2	.5	P 34	L16	# 15
Yseboodt	, Lennart	Signify			Yseboodt,	Lennart		Signify		
Comment	t Type T	Comment Status A		Extended Power	Comment	Туре Т	Comment	Status A		
"Edito	ors note: Extended p	power requirements need to b	e reviewed and fi	ixed if necessary."	We di The ra	d not actually fix t ace condition is st	he issue indica ill there, all we	ted by Comme did was add a	ent #8 against 802. variable that get's	.3bt. written but is never read.
The e PClas	extended power requ ss_PD.	irement should follow the sar	ne format as the	ext. power rule for	Suggested	Remedy	and the ere fre			to road
Suggeste	dRemedy				"ac m	leasurement com	ange the arc no pleted".		IO AUTOCLASS	lo read
Repla	ace the text in 145.3	.8.4.1 by the following:			2. Cha "pse_o	ange the arc in Fig dll_ready * Mirrore	gure 145-14 be edPDAutoclass	tween IDLE_A Request * !ac	CS and MEASUR _measurement_co	E_ACS_DLL to read: mpleted"
"For s when betwe the pe max f	single-signature PD additional informati- een the PSE PI and eak power shall not for dual-signature PI	s assigned to Class 8 and for on is available to the PD rega the PD PI, in any operating c exceed P Port_PD max for si Ds for more than T CUT min,	dual-signature F rding actual link s ondition with any ngle-signature P as defined in Ta	PDs assigned to Class 5, section DC resistance static voltage at the PI, Ds and P Port_PD-2P ble 145-16 and with 5%	This h to ME We als	as the effect of w ASURE_ACS_D0 so make it wait in	aiting for Figure ONE before pro IDLE_ACS unt	e 145-14 to ha oceeding to AL til Fig 145-41 h	ve progressed fror JTOCLASS in Fig. nas returned to IDL	n MEASURE_ACS_DLL . 145-41. _E.
duty o	cycle. Peak operatin	g power shall not exceed 1.0	5 X P Port_PD m	ax for single-signature	Note:	this requires simu	lation to fully ve	erify.		
PDs a Port	and shall not exceed PD max and P Port	PD-2P max refers to the ma	or dual-signature ximum power dra	aw as permitted by	Response		Response	Status C		
145.3	3.8.2.1."				ACCE	PT.				
Remo	ove the editor's note									
	Update PICS F	PD56 and PD57.								

Response

Response Status C

ACCEPT.

(note to editor: be careful if copying text as there are many symbols contained within)