C/ 00 SC	C 0	Р	L	# 1	C/ 30	SC	30.12.2.1	.18a	P 37	L <b>22</b>	# 3
Anslow, Pete		Ciena			Anslow, P	ete			Ciena		
Comment Type	ER	Comment Status X			Comment	Туре	Е	Comme	ent Status X		
In general, f included. Understand Clause, this	for amended ling that for a does not a	d clauses, only the text of s Clause 33, the Task Force pply to other amended clau	ubclauses that a has decided to r ses.	re being changed are eplace the whole	Addin shoul Simila	g 30.12 d be mo arly for 3	2.2.1.18a, odified wit 30.12.3.1.	30.12.2.1. n new rows 18a, 30.12	18b, 30.12.2.1.18c s. .3.1.18b, 30.12.3.1	, 30.12.2.1.18d .18c, 30.12.3.1.	means that Table 30-7 18d
SuggestedRem	edy				Show	additio	ns to Tab	e 30-7 for	new subclauses.		
In preperation and for all a being chang For Clause	on for a required amended cla ged. 25 this invol	uest to proceed Working G auses (except Clause 33) a	roup Ballot, go th nd remove all su	nrough the entire draft bclauses that are not	Proposed	Respo	nse	Respon	se Status <b>O</b>		
Leave head Remove he Change edit	ling for 25.4 ading and c	but remove text content for 25.4.1 through 2 ion to: "Change text of 25.4	5.4.4 5 as follows:" (\	we do not use the term	<i>Cl</i> <b>33</b> Beia, Chri	SC stian	33.2.8		P 102 STMicroelect	L <b>32</b> ronics	# 4
"section") Remove he Below head Remove he	ading and c ling for 25.4 ading and c	content for 25.4.5.1 through .7 add editing instruction: " content for 25.4.5.1 through	25.4.6 Change text of 2 to the ned of the	5.4.7 as follows:" e clause.	Comment Table Icon-2	<i>Type</i> 33-17, 2P-unb	ER Item6 is relevan	Comme t to SS PD	ent Status X only.		
Proposed Resp	onse	Response Status O		Suggester Add " Proposed	dReme Single S Respo	<i>dy</i> Signature <i>nse</i>	PD" on eac	ch line of Item6, co	olumn Paramete	r, before the Class.	
CI 00 SC	0 0	P	L	# 2				reepen			
Comment Type	ER	Comment Status X	iting instruction		<i>Cl</i> <b>33</b> Beia, Chri	SC stian	33.4.1.1.	2	P <b>151</b> STMicroelecti	L 11 ronics	# 5
SuggestedRem Go through This include	<i>edy</i> the draft mass at least 3	e draft have an associated editing instruction making sure that all changes have an associated editing instruction. 33A.5, Annex 33B, Annex 33C, Annex 33D, Annex 33E			Comment Type TR Comment Status X In order to successfully detect DS PDs with a common ground, PSEs that support 4-p operation have to switch the more negative conductor at least. This is already specific for Environment A PSEs, but not for Environment B						
Proposed Resp	onse	Response Status O			Suggeste	dReme	dy	-,			
					Add a	fter the	second p	aragraph c	of 33.4.1.1.2 the fol	lowing sentence	
					An Er condu	vironm uctor. It	ent B PSI is allowat	that supp le to switcl	orts 4-pair power s h both conductors	shall switch the r	nore negative
					Proposed	Respo	nse	Respon	se Status <b>O</b>		

Cl 33 Beia Chr	SC 33.2.8.7	P 111 STMicroelect	L 14	# 6	C/ <b>33</b> Beia Chr	SC <b>33.2.8.</b> 2	2	P 106	L 12	# 7
Comment		Comment Status X			Commen	t Type TR	Comment Sta	tus X		
The f	ollowing sentence	single-signature PD, a Type 3	3 or Type 4 PSE	should (TBD) remove	The r is mis	resolution of con ssing.	nment 324 of Draft	1.6 was only	y partially implen	nented, and some text
powe eithei has s	r from both pairse r pairset. everel weak point	its before the current exceed	s the "PSE upp	erbound template" on	Suggeste Repla The r	edRemedy ace : minimum PD inc	out capacitance CP	ort min or C	Port-2P min def	ined in Table 33–28.
- the failure	"should" makes r e working on singl r to be removed fi	hobody happy: those who wa le pairset would ignore a reco rom both pairsets don't have	nt the PSE to be comendation, ar the assurance i	e able to go past a nd those who want the t will be implemented.	allow lastin	rs a PD to opera ig less than 30 μ	te for input voltage is.	transients	which cause VPI	D to drop as low as 0 V,
- the	timing requiremen	nts for power removal can inc	crease PSE con	plexity.	With:					
The r powe poter	nain goal here sho red on 2-pairs wo ntially overstressin	ould be avoiding that a PD th uld exceed the current origin g the magnetics.	nat failed to work ally intended to	over 4-pairs, when flow on one pairset,	The allow low a	minimum PD in s PDs of any Ty s 0V lasting less	put capacitance CF /pe to operate for ir s than 30µs as spe	ort min or ( put voltage cified in 33.	CPort-2P min de transients which 3.7.6.	fined in Table 33-28, n cause VPD to drop as
So, the	ne requirement sh esecond pairset is	ould allow the PSE to discor below one-half of the assign	nnect only one p ned power (i.e. th	airset only if the current	Proposed	l Response	Response Sta	tus <b>O</b>		
its ow	in current, and no	damage occurred.		Still Reeping control of	C/ 33	SC 33.3.7.3	3	P 142	L <b>2</b>	# 8
See a	also Darshan_05				Bennett,	Ken	S	fos Techno	ologies, In	
Suggeste	dRemedy				Commen	<i>t Type</i> E	Comment Sta	tus X	oro within the Dr	ack RD costion
Repla	ace:				Suggosto	dPomodu	rush sectori ngule,	but it appe		eak_1 D Section
vvner powe	r from both pairse	ets before the current exceed	s of Type 4 PSE	erbound (TBD) remove	Place	e the figure withi	n the Inrush section	า		
eithei	r pairset.				Proposed	d Response	Response Sta	tus <b>O</b>		
With: Wher from is bel	n connected to a s one pairset and m ow one half of the	single-signature PD, a Type 3 naintain power on the other p assigned Pclass (0.5*Pclas	3 or Type 4 PSE airset only if the s).	may remove power PD power consumption						
Proposed	l Response	Response Status O								
TYPE: TF COMMEN SORT OF	R/technical require NT STATUS: D/dis RDER: Comment	ed ER/editorial required GR spatched A/accepted R/reje ID	/general require ected RESPO	d T/technical E/editorial G NSE STATUS: O/open W/v	/general written C/close	ed Z/withdrawn		Comm	ent ID 8	Page 2 of 54 5/2/2016 10:57:

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C/ 33 SC 33.2.1	P <b>47</b>	L 10	# 9	CI 33 S	C 33.3.7.2.1	P <b>140</b>	L 36	# 11
Bennett, Ken	Sifos Technol	ogies, In		Bennett, Ken		Sifos Technolo	ogies, In	
Comment Type ER	Comment Status X			Comment Type	TR	Comment Status X		
Table 33-2, 3rd column The entries in the colum	header states "Range of ma n are not ranges; they only	aximum Classes show the maxin	supported". num.	Until recen symbols fo	tly, Pport_PD r the input av	0 only existed in 33.3.7.2.1. P verage power in Table 33-28	Port_PD and F and in 33.3.7.2	port_PD_2P are now
SuggestedRemedy				The definiti	ons of the Pr	nort PD and Pnort PD 2P v	ariables in Sec	tion 33 3 7 2 1 are in
Change the column hea "Maximum Class Suppo	ding to: rted."			conflict with (fixed) Vpo	the average rt_PD_2P va	e power variables in the PCIa lue which is incorrect; The PI	ss_PD specific	cation. They use a static changes dynamically
Proposed Response	Response Status 0			with power	variations in	the PD (due to channel resis	stance).	
				Section 33 Average Po	.3.7.2.1 also ower, and is o	doesn't seem to make sense entitled:	e. It is a subse	ction of 33.3.7.2-Input
C/ 33 SC 33.3.7.4 Bennett, Ken	P <b>142</b> Sifos Technol	<i>L</i> <b>27</b> logies, In	# 10	"System St	ability Test C	Conditions During Start-up an	d Steady State	»."
Comment Type ER "Iport" is defined as the	Comment Status X RMS current in this section.			The conter There IS no existing (.a	t states Ppol o test condition t) standard.	rt_PD and Pport_PD_2P "sha on mentioned. Pport_PD isn'	all be defined b t even used an	y", and that's it. ywhere else in the
with an RMS Current de	finition. (Including instantan	eous values, lin	hits, time-limited, etc.)	Section 33 average po	.3.7.2.1 shou wer in table :	ld be deleted. Alternatively, c 33-28.	different symbo	Is should be used for
The RMS Current definit	ion should be apparent in the	ne symbol to dis	tinguish it from other	SuggestedRem	nedy			
Instances of Iport.				Delete sec OR Change Pp	tion 33.3.7.2.	1. Pport_PD_2P in table 33-28	to Pavg_PD ar	nd Pavg_PD_2P.
SugaestedRemedv				Proposed Resp	oonse	Response Status 0	-	-
In section 33.3.7.4,								

Change Iport to IportRMS and change Iportmax to IportRMSmax

Proposed Response

Response Status 0

Bennett, KenSifos Technologies, InDarshan, YairComment TypeTRComment Status XComment TypeThe statement below, which is in the Peak Power section, "allows" an RMS current. Its limit in equation 33-26 is based upon average power and a fixed voltage, which is inconsistent with Ppeak_PD. It's not clear that the "Allowed" RMS current still must meet the Ppeak_PD requirement.In comment Type In comment At the resp. "As of right those case. This shoul The above"Existing text: "Ripple current content (IPort_ac) superimposed on the DC current level (IPort_dc) "IS ALLOWED" if the total input power is less than or equal to PClass_PD max, or PClass at the PSE PI for Class 6 and Class 8 PDs."SuggestedRem. Add the fo Editor Not those case. Proposed Remedy Insert the quoted text as shown: Ripple current content (IPort_ac) superimposed on the DC current level (IPort_dc) is allowed if "Ppeak_PD requirements are met" and the total input power is less than or equal to PClass_PD max, or PClass at the PSE PI for Class 6 and Class 8 PDs.C/ 33 SC Cl 33 SC 33.3.7.10Proposed ResponseResponse StatusODarshan, Yair Comment Type Missing Im "tcc_timer A timer use	r Microsemi pe E Comment Status X ent 202 from D.16 regarding overload. sponse, the comment editor wrote: yht now, we have multiple optional behaviors in the SD, how do we want to handle ses?" uld be converted to editor note to be addressed by the group. ve was meant to increase PSE design flexibility. emedy following Editor Note at the end of the SM clause: ote: "We have multiple optional behaviors in the SD, how do we want to handle ses?" esponse Response Status O SC 33.2.5.10 P73 L 44 # 15 r Microsemi pe ER Comment Status X
Comment Type       TR       Comment Status X       Comment Type         The statement below, which is in the Peak Power section, "allows" an RMS current. Its limit in equation 33-26 is based upon average power and a fixed voltage, which is inconsistent with Ppeak_PD. It's not clear that the "Allowed" RMS current still must meet the Ppeak_PD requirement.       In comment At the resp. "As of right those case."         Existing text:       "Ripple current content (IPort_ac) superimposed on the DC current level (IPort_dc) "IS ALLOWED" if the total input power is less than or equal to PClass_PD max, or PClass at the PSE PI for Class 6 and Class 8 PDs."       SuggestedRemedy         SuggestedRemedy       Insert the quoted text as shown:       Proposed Response       Response Status       O         C/ 33       SC 33.3.7.10       P147       L 26       # 13       Comment Type         Missing lin       "tcc_timer         Nissing lin       "tcc_timer         A timer use       Sifos Technologies, In	pe       E       Comment Status       X         ent 202 from D.16 regarding overload.       sponse, the comment editor wrote:
The statement below, which is in the Peak Power section, "allows" an RMS current. Its limit in equation 33-26 is based upon average power and a fixed voltage, which is inconsistent with Ppeak_PD. It's not clear that the "Allowed" RMS current still must meet the Ppeak_PD requirement.In comme At the rest "As of right those case This shoul The aboveExisting text: "Ripple current content (IPort_ac) superimposed on the DC current level (IPort_dc) "IS ALLOWED" if the total input power is less than or equal to PClass_PD max, or PClass at the PSE PI for Class 6 and Class 8 PDs."SuggestedRer Add the fo Editor Not those case Proposed Remedy Insert the quoted text as shown: Ripple current content (IPort_ac) superimposed on the DC current level (IPort_dc) is allowed if "Ppeak_PD requirements are met" and the total input power is less than or equal to PClass_PD max, or PClass at the PSE PI for Class 6 and Class 8 PDs.SuggestedRer Add the fo Editor Not those caseProposed ResponseResponse StatusOC/ 33SC 33.3.7.10P147L 26# [13Missing lim "tcc_timer A timer use	ent 202 from D.16 regarding overload. sponse, the comment editor wrote: yht now, we have multiple optional behaviors in the SD, how do we want to handle ses?" uld be converted to editor note to be addressed by the group. ye was meant to increase PSE design flexibility. emedy following Editor Note at the end of the SM clause: ote: "We have multiple optional behaviors in the SD, how do we want to handle ses?" esponse Response Status <b>0</b> SC 33.2.5.10 P 73 L 44 # 15 r Microsemi pe ER Comment Status X
"Ripple current content (IPort_ac) superimposed on the DC current level (IPort_dc) "IS       SuggestedRer         ALLOWED" if the total input power is less than or equal to PClass_PD max, or PClass at the PSE PI for Class 6 and Class 8 PDs."       SuggestedReredy         SuggestedRemedy       Insert the quoted text as shown:       Proposed Res         Ripple current content (IPort_ac) superimposed on the DC current level (IPort_dc) is allowed if "Ppeak_PD requirements are met" and the total input power is less than or equal to PClass 2 PD max, or PClass at the PSE PI for Class 6 and Class 8 PDs.       Cl 33       SC 33.3.7.10       P 147       L 26       # 13       Comment Type         Missing lin       "tcc_timer       Sifos Technologies, In       A timer ust       A timer ust	emedy following Editor Note at the end of the SM clause: ote: "We have multiple optional behaviors in the SD, how do we want to handle ses?" esponse Response Status <b>O</b> SC 33.2.5.10 P 73 L 44 # 15 r Microsemi pe ER Comment Status X
Add the for the PSE PI for Class 6 and Class 8 PDs."       Add the for Editor Not those case         SuggestedRemedy       Insert the quoted text as shown:       Proposed Res         Ripple current content (IPort_ac) superimposed on the DC current level (IPort_dc) is allowed if "Ppeak_PD requirements are met" and the total input power is less than or equal to PClass_PD max, or PClass at the PSE PI for Class 6 and Class 8 PDs.       Proposed Res         Proposed Response       Response Status       O       Cl 33       SC 33.3.7.10       P 147       L 26       # 13       Missing lin "tcc_timer A timer used"	following Editor Note at the end of the SM clause: bit: "We have multiple optional behaviors in the SD, how do we want to handle ses?" seponse Response Status O SC 33.2.5.10 P 73 L 44 # 15 r Microsemi pe ER Comment Status X
SuggestedRemedy       Editor Not those case         Insert the quoted text as shown:       Proposed Res,         Ripple current content (IPort_ac) superimposed on the DC current level (IPort_dc) is allowed if "Ppeak_PD requirements are met" and the total input power is less than or equal to PClass_PD max, or PClass at the PSE PI for Class 6 and Class 8 PDs.       Image: Class 6 and Class 8 PDs.         Proposed Response       Response Status       O       Image: Class 6 and Class 8 PDs.         Class SC 33.3.7.10       P147       L 26       # 13         Missing lin       "tcc_timer       A timer use	SC 33.2.5.10       P 73       L 44       # 15         r       Microsemi         pe       ER       Comment Status       X
Insert the quoted text as shown:       Proposed Res         Ripple current content (IPort_ac) superimposed on the DC current level (IPort_dc) is allowed if "Ppeak_PD requirements are met" and the total input power is less than or equal to PClass_PD max, or PClass at the PSE PI for Class 6 and Class 8 PDs.       Image: Cl 33 SC 33.3.7.10         Proposed Response       Response Status       O         Cl 33 SC 33.3.7.10       P147 L 26 # 13         Bennett, Ken       Sifos Technologies, In	ssponse Response Status O SC 33.2.5.10 P 73 L 44 # 15 r Microsemi pe ER Comment Status X
Ripple current content (IPort_ac) superimposed on the DC current level (IPort_dc) is allowed if "Ppeak_PD requirements are met" and the total input power is less than or equal to PClass_PD max, or PClass at the PSE PI for Class 6 and Class 8 PDs.	SC 33.2.5.10     P 73     L 44     # 15       r     Microsemi       pe     ER     Comment Status X
Proposed Response     Response Status     O     Darshan, Yair       Cl 33     SC 33.3.7.10     P 147     L 26     # 13       Bennett, Ken     Sifos Technologies, In     # 13     "tcc_timer A timer use	r Microsemi pe ER Comment Status X
Cl 33       SC 33.3.7.10       P 147       L 26       # 13       Missing lin "tcc_timer A timer use	pe ER Comment Status X
Cl 33SC 33.3.7.10P 147L 26# 13Missing lin "tcc_timer A timer useBennett, KenSifos Technologies, InA timer use	
	ink to Table 33-7 in the following text: er ised to monitor the duration of Connection Check."
Comment Type TP Comment Status X SugaestedRer	emedy
The first two paragraphs are ambiguous. It's not clear whether the ICon_2P_unb, ICon_2P requirements must be met for a single set of RSource and Vport_PSE values that fall within the ranges mentioned, or if ICon_2P_unb, ICon_2P must be met over the full Rsource and Vport_PSE_2P ranges. To:	from: er ised to monitor the duration of Connection Check."
The requirements for ICon apply to the full Rsource and Vport ranges, which correspond to "tcc_timer compliant ranges of PSE and Channel characteristics. (PDs can fail Icon_unb at short or A timer us	er ised to monitor the duration of Connection Check. See Table 33–7."
long channels, and at any length for extended power.) Proposed Res	sponse Response Status O
SuggestedRemedy See bennett_1_0516.pdf	
Proposed Response Response Status <b>O</b>	

							-	
CI 33 SC 33.2.	7.2 P 99	L <b>50</b>	# 16	CI 33	SC	Р	L	# 19
Darshan, Yair	Microsemi			Darshan,	Yair	Microsemi		
Comment Type ER	Comment Status X			Comment	Type ER	Comment Status X		
Table 33-15 item 6	6 and 7 use the same number (6)			For th	ne next draft, it	is preferred to show the new edi	torial marks (in	sertions and deletions)
SuggestedRemedy				two d	ocuments.	anging bars. It helps to see the c	nanges withou	it the need to compare
To renumber Table	e 33-15 items.			Suggeste	dRemedy			
Proposed Response	Response Status <b>O</b>			For no chang	ext Drafts: sho ging bars.	w the new editorial marks (insert	ions and deleti	ons) in addition to the
<i>Cl</i> <b>33</b> <i>SC</i> <b>33.2</b> . Darshan, Yair	8.4 P 106 Microsemi	L <b>28</b>	# 17	Proposed	Response	Response Status <b>O</b>		
Comment Type ER	Comment Status X			C/ 33	SC 33.4.9	.2 P 162	L 30	# 20
Comment #196 fro	m D1.6 was not implemented cor	rectly		Darshan,	Yair	Microsemi		
"IPort-2P and IPort pairsets and are de	t-2P-other are the currents on the efined in Equation (33–5) **in and	pairs with the s ** Equation (33-	ame polarity of the two -6).	Comment The E	<i>Type</i> <b>ER</b> Editor Note is n	Comment Status X not required anymore. All the nec	essary parame	eters were defined.
Suggesteurkerneuy				Delet	e Editor Note			
"IPort-2P and IPort pairsets and are de	t-2P-other are the currents on the efined in Equation (33–5) and in E	pairs with the s quation (33–6).	ame polarity of the two	Proposed	Response	Response Status O		
Proposed Response	Response Status 0							
	2.40	1 44	# 40	<i>Cl</i> <b>33</b> Darshan,	SC <b>Anne</b> » Yair	<b>B</b> P 232 Microsemi	L <b>28</b>	# 21
C/ 33 3C 33.3.	3.10 P 129 Microsemi	L <b>4</b> 1	# 18	Comment	Туре Т	Comment Status X		
Comment Type ER Title of figure 33-33	Comment Status X 3 need to be 33-2			In the "Verif in cor	e text: ication of ICon nformance to th	-2P_unb in step 6 and 7 confirm nis specification."	s PSE RPSE_r	max and RPSE_min are
SuggestedRemedy				replac	ce "PSE" with '	"that"		
Change fig number	r to 33-2			Suggeste	dRemedv			
Proposed Response	Response Status <b>O</b>			Chan "Verif in cor	ge to: ication of ICon formance to th	-2P_unb in step 6 and 7 confirm nis specification."	s that RPSE_m	nax and RPSE_min are
				Proposed	Response	Response Status 0		

C/ 33 SC 33.2.8	P 105	L <b>44</b>	# 22	C/ 33	SC 33.2.8	7	P 111	L 14	# 25
Darshan, Yair	Microsemi			Darshan,	Yair		Microsemi		
Comment Type <b>T</b> Delete Editor Note #3. In	Comment Status X t was adressed in D1.7.			<i>Comment</i> Refer	<i>Type</i> <b>TR</b> ring to the text	Col (see dars	mment Status X shan_05_0516.pdf for	details):	
SuggestedRemedy Delete Editor Note #3. I Proposed Response	t was addressed in D1.7. <i>Response Status</i> <b>O</b>			"[**Pa curren Figure [**Pa (TBD) templ	art-1**] Power s nt exceeds the e 33-14b. urt-2**] When c ) remove powe ate" on either	hall be re "PSE upp onnected r from bo pairset."	emoved from a pairset berbound template" in to a single signature F th pairsets before the	PI of a PSE be Figure 33-14, F PD, a Type 3 or current exceeds	fore the pairset PI iigure 33-14a, and Type 4 PSE should s the "PSE upperbound
Cl 33 SC 33.2.8 Darshan, Yair Comment Type T Delete Editor Note #1. It	P 105 Microsemi <i>Comment Status</i> X t was addressed in D1.7.	L <b>32</b>	# 23	Due t a)Eac b)Shu c)For desig	o the fact that ch pairset is all utting off both p cing the PSE t ned to work at	for single- eady prot airset doo o shut off lower pov	signature PD: ected by [**part-1**]. esn't add extra protect both pairset in case o ver in case of fault who	ion to the PD. f fault, kills PD a en 4-pairs is rec	applications that was quired for full power.
SuggestedRemedy Delete Editor Note #1. Proposed Response	Response Status 0			We d pairse was r remai text ir	on't need [**Pa et approaches lot designed to ning pairset ar n [**Part-2**].	rt-2**] du the upper handle lo id it will b	e to the fact that in sin bound template, this j wer power mode, the e disconnected as wel	gle-signature P pairset will be p whole current w l, so there is no	D if current over a owered off, if the PD /ill flow through the need for the redundant
Cl 33 SC 33.3.7.6 Darshan, Yair Comment Type T Per comment #193 in D "a)" should be deleted in "a) A Type 1 PD input c 38) after TLIM min (see SuggestedRemedy Change to:	P 145 Microsemi Comment Status X 1.6 according to approved rea In the following text: urrent shall not exceed the PI Table 33-17 for a Type 1 PSI	L 30 medy DARSH/ D upperbound E) when the fol	# 24 AN_06_0316.PDF the template (see Figure 33- lowing"	Suggeste Optio Delete "Whe powe Optio The s wordi <i>Proposed</i>	dRemedy n 1: e: n connected to r from both pai n 2: To addres olution may be ng of it prior th r Response	a single rsets before s solution describe e meeting <i>Res</i>	signature PD, a Type ore the current exceed proposed by Chritian d in darshan_05_0516 J. ponse Status <b>O</b>	3 or Type 4 PSI s the "PSE upp to be discussed 5.pdf if we get a	E should (TBD) remove erbound template" d by the group. consensus on the
1. "A Type 1 PD input c 33–38) after TLIM min ( 2. Align the paragraph t Type 3 PD" Proposed Response	urrent shall not exceed the PI see Table 33–17 for a Type 1 o the next paragraph starting <i>Response Status</i> <b>O</b>	D upperbound to PSE) when th with "A Type 2	emplate (see Figure e following" or single-signature						

CI 33	SC 33.2.10.1.2	2 <i>P</i> 119	L <b>22</b>	# 26	C/ 33	SC 33	3.2.5.12	P 98	L <b>4</b>	# 27
Darshar	n, Yair	Microsemi			Darshan,	Yair		Microsemi		
Comme	nt Type TR	Comment Status X			Comment	Туре	TR	Comment Status X		
Fals nee We for a cyc	se disconnect or fals of to be adrressed. need to allow PSE s a dt of 0.8ms to 20m le of MPS+TMPDO f	e maintain power as a result on system to decide what to do in s which result with distored or or a specific time window.	of Short MPS in this case whe f the short MP	under PSE transient en a PSE dv of up to 2V S pulse for at least one	We n Wher PD cl to sup powe	eed to add n Type 3 P ass 5 or a oply the co r.	dress the for SE with av bove and w prrect numb	billowing use case (as an ex railable power of Type 1 or ve need to report to the hos per of fingers (1 in case of 1	ample): Fype 2 connec t what is the a 5.4W) to indic	cted to single signature actual PD class and yet cate the available PSE
Sugges	tedRemedy				For th	is purpos	e we need	to allow class reset after 3	class event an	id issuing one class
Ado Opt Typ	the following text to ion 1: e 3 and Type 4 PSE	the end of section 33.2.10.1. when supporting short MPS	2: may fail to de	tect presence or	Suggeste	dRemedy				
abs MP volt wind abs	ence of a short MPS S pulse. Type 3 and age change dv of up dow of 3 sec (TBD) r ence of short MPS p	pulse as a result of PSE dv/d Type 4 PSE when supporting to 2V and time duration dt of nay maintain the power or dis ulse is not possible under the	dt that may ca g short MPS d 0.8msec to 10 sconnect the p above conditi	ncel or distorted or add uring PSE dv/dt for PSE Omsec for a sliding time ower when presence or ions.	1. To "Type Type to cle that is	add the fo 3 and Ty 3 and Typ ar the class s correspo	ollowing tex pe 4 PSEs oe 4 PSEs i ss and marl onding to the	t at page 98 line 4: may issue up to 3 class ev incapable of supporting PD k event counts and may iss e PSE available power."	ents to determ Class may iss ue the lowest	nine PD Class. sue a class reset event number of class events
Opt A P whi sigr	ion 2: SE may ignore the c ch permits PSEs to c nal.	urrent MPS status of a short leal with seldom occurring tra	MPS pulse on ansients that m	ce every 3 seconds, ay distort the MPS	2. No detec Type versio	need to u t and not p 3 class 6 on.	pdate PSE power" or P PDs or may	SM since it is optional feat SE can use Type 4 class 7 y other examples in the cur	ure similar to current settin ent spec inclu	the text that "PSE can gs when operating uding IEEE802.3-2012
Propose	ed Response	Response Status O			Proposed	Respons	e F	Response Status <b>O</b>		

C/ 33 SC 33.2.8.5	P 109 Microsemi	L <b>20</b>	# 28	C/ <b>33</b> Darshan	SC <b>33.3.7.3</b> Yair	P 141 Microsemi	L 16	# 30
Comment Type TR	Comment Status X			Comment	Type TR	Comment Status X		
In the following text, it i "The PSE shall limit IIr Table 33-17. The maxi the per pairset inrush t in Figure 33-26 and Ec after significant time (1 time duration but the te at t=0 only.	is not clear when the PSE is for mrush-2P and Ilnrush during Pr mum inrush current sourced b emplate in Figure 33-26 and E juation (33-13) some PD imple 0-30msec) after the application emplate in figure 33-26 looks t	ollowing the tem OWER_UP per by the PSE per Equation (33-13 ementations state on of Vpd but stith hat it is relevan	nplate: the requirements of pairset shall not exceed )." rt to show linrush only Il within Tinrus_min t to iinrush appearance	Addre D1.6: The fo 1.Doe within 2.How setting 3.Add	ssing comments bllowing proposed s PDs that are in TInrush-2P min we prevent that g value to ensure ing a note that ex	# 179 and others related to t I modifications are addressin ternally limiting their inrush c per Table 33-17? PD internal load during linrus successful POWER_UP? plains why the PD PI current	his clause as e g the following urrent are requ sh period is les t is not equal to	laborated below from questions: ired to end Inrush period s than Inrush current the DC load current
SuggestedRemedy				during 4.Add	I POWER UP.	esses the new 110uF value f	or dual-signatu	re class 1-4.
Change from: "The PSE shall limit IIr Table 33-17. The maxi the per pairset inrush t	rush-2P and IInrush during P mum inrush current sourced b emplate in Figure 33-26 and E	OWER_UP per by the PSE per   Equation (33-13	the requirements of pairset shall not exceed )."	Suggestee See d Proposed	dRemedy arshan_02_0516 Response	pdf for proposed remedy. Response Status <b>O</b>	J	
"The PSE shall limit IIr requirements of Table shall not exceed the pe the duration of POWE	rush-2P and IInrush during P 33-17. The maximum inrush c er pairset inrush template in Fi R_UP state**."	OWER_UP **st current sourced igure 33-26 and	ate** per the by the PSE per pairset Equation (33-13) **for	Cl <b>33</b> Darshan, <sup>2</sup>	SC <b>33.3.7.6</b> Yair	P 145 Microsemi	L <b>25</b>	# 31
Proposed Response	Response Status <b>O</b>			<i>Comment</i> We ne value	<i>Type</i> <b>TR</b> eed to address th from 180uF to 11	Comment Status X e fact that we change dual-si 0uF	ignature class 1	-4 PD capacitance
C/ 33 SC 33.2.8 Darshan, Yair	P <b>102</b> Microsemi	L <b>49</b>	# 29	<i>Suggestee</i> See p	dRemedy roposed remedy	in darshan_03_0516.pdf		
Comment Type TR 1. Table 33-17 item 7 a incorrectly. 2. Some adjustment to case operating condition Von. Same applies to 3. Some adjustments a	Comment Status X approved baseline additional in linrush for dual-signature PD ons when PD using constant p Table 33-28. are required to clause 33.2.8.5	nformation coluctors $0.4$ is recover sink that $65.1$ due to $(2) + 3$	mn was implemented juired to address worst operates at minimum fixing PD type error.	Proposed	Response	Response Status 0		
SuggestedRemedy			0 11					
See darshan_01_0516	.pdf for proposed remedy.							
Proposed Response	Response Status <b>O</b>							

Cl 33       SC 33.2.7.2       P99       L1       # 32         Darshan, Yair       Microsemi       Microsemi       Microsemi         Comment Type       TR       Comment Status X       Microsemi       Microsemi         The following requirements in ot described by the state machine.       "If any measured IClass is equal to or greater than IClass_LIM min, a Type 2, Type 3 or Type 4 FSE shall complete Multiple-Event Physical Layer classification and transition POWER_ON state without allowing the voltage at the PI or pairset to go below VMs unless in the CLASS_RESET_PRI or CLASS_RESET_SEC states."         SuggestedRemedy       Add the following Editor Notes:       "Gitor Notes: To address in the state machine the case of what should Type 2, 3 and 4 do if the measured IClass is within the range of IClass_LIM or use text only (preffered)."       SuggestedRemedy         Cl 33       SC 33.2.6       P 90       L5       # 33         Cl 33       SC 33.2.6       P 90       L5       # 33         Darshan, Yair       Microsemi       Comment Status X       The following text:       * Address in subtime the nange of IClassify a PD but then opt not to power the detected PD.*       The following text:       * Address in not covered:       P 103       L 30       # 35         Cl 33       SC 33.2.6       P 90       L 5       # 33       Darshan, Yair       Microsemi         Cl 33       SC 33.2.6       P 90 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>									
Darshan, Yair       Microsemi         Comment Type       TR       Comment Status X         The following requirement is not described by the state machine.       "If any measured (Class is equal to or greater than IClass, LIM min, a Type 2, Type 3 or Class E shall return to the IDLE state. The PSE shall limit class event currents to IMark_LIM."       Darshan, Yair       Comment Type a TR       Comment Status X         SuggestedRemedy       Add the following Editor Note: To address in the state machine the case of what should Type 2, 3 and 4 do if the measured (Class is within the range of IClass, LIM or use text only (prefered)."       SuggestedRemedy       Change to:         "Editor Note: To address in the state machine the case of what should Type 2, 3 and 4 do if the measured (Class is within the range of IClass, LIM or use text only (prefered)."       Proposed Response       Response Status O         (7 33 SC 33.2.6       P 90       L 5       # [33]         Comment Type TR       Comment Status X       In the following text:       Nicrosemi         Comment Type TR       Comment Status X       In the following text:       Nicrosemi         Comment Type TR       Comment Status X       In the following text:       Nicrosemi         Comment Type TR       Comment Status X       In the following text:       Nicrosemi         Comment Type TR       Comment Status X       In the following text:       Nicrosemi         Comment Type TR	C/ 33 SC 33.2.7.2	P 99	L <b>1</b>	# 32	C/ 33	SC 33.2.7	2 P 99	L <b>9</b>	# 34
Comment Type       TR       Comment Status X         The following requirement is not described by the state machine.       The following requirement is not described by the state machine.         ''If any measured (Class is equal to or greater than IClass_LIM min, a Type 2, Type 3 or Type 4 PSE shall limit mark event currents to ItClass_LIM and shall limit mark event currents to ItClass_LIM and shall limit mark event currents to ItClass_LIM is and shall limit mark event currents to ItClass_ILM.       Comment Type       TR       Comment Status X         SuggestedRemedy       Add the following Editor Notes:       ''Editor Note: To address in the state machine the case of what should Type 2, 3 and 4 do if the measured IClass is within the range of IClass_LIM or use text only (preffered).''       Progosed Response       Response Status       O         Cl 33       SC 33.2.6       P 90       L 5       # 33         Carment Type       TR       Comment Status X       Microsemi         Comment Type       TR       Comment Status X       Darshan, Yair       Microsemi         Comment Type       TR       Comment Status X       Darshan, Yair       Microsemi         Comment Type       TR       Comment Status X       Darshan, Yair       Microsemi         Comment Type       TR       Comment Status X       Darshan, Yair       Microsemi         Comment Type       TR       Comment Status X       Darshan, Yair	Darshan, Yair	Microsemi			Darshan,	Yair	Microsemi		
The following requirement is not described by the state machine. "If any measured IClass is equal to or greater than IClass_ LIM any a Type 2. Type 3 or Type 4 PSE shall return to the IDLE state. The PSE shall limit class event currents to IClass_LIM and shall limit mark event currents to IMark_LIM." SuggestedRemedy Add the following Editor Notes: "Editor Note: To address existing "shall" requirements that are not covered in the state machine." "Editor Note: To address in the state machine the case of what should Type 2, 3 and 4 do if the measured IClass is within the range of IClass_LIM or use text only (preffered)." Proposed Response Response Status O C1 33 SC 33.2.6 P 90 L 5 # 33 Darshan, Yair Microsemi Comment Type TR Comment Status X In the following text: "Also, a PSE may successfully detect and classify a PD but then opt not to power the detected PD." To foll whe location with the existing text and update it. To add text that PSE may detect and classify and POWER_UP and not continue to POWER_ON. To find the location with the existing text and update it.	Comment Type TR	Comment Status X			Commen	t Type TR	Comment Status X		
SuggestedRemedy         Add the following Editor Notes:         "Editor Note: To address existing "shall" requirements that are not covered in the state machine."         "Editor Note: To address in the state machine the case of what should Type 2, 3 and 4 do if the measured IClass is within the range of IClass_LIM or use text only (preffered)."         Proposed Response       Response Status         O         Cl 33       SC 33.2.6       P 90       L 5       # 33         Darshan, Yair       Microsemi         Comment Type       TR       Comment Status       X         In the following text:       "Also, a PSE may successfully detect and classify a PD but then opt not to power the detected PD."       To add text that PSE may detect and not continue and go to IDLE or detect and classify and not go to POWER_UP or detect and classify and POWER_UP and not continue to POWER_ON.       To ind the location with the existing text and update it.	The following requirement "If any measured IClass is Type 4 PSE shall return to IClass_LIM and shall limit IMark_LIM."	is not described by the sta equal to or greater than lo the IDLE state. The PSE mark event currents to	ate machine. Class_LIM min shall limit class	, a Type 2, Type 3 or s event currents to	"The POW unles Missi	PSE shall com /ER_ON state v ss in the CLASS ng POWER_U	plete Multiple-Event Physical Li vithout allowing the voltage at tl s_RESET_PRI or CLASS_RES P state as well.	ayer classification ne PI or pairset ET_SEC states	on and transition to the to go below VMark min, ."
Add the following Editor Notes:       "Editor Note: To address existing "shall" requirements that are not covered in the state machine."       "Editor Note: To address existing "shall" requirements that are not covered in the state machine."       "The PSE shall complete Multiple-Event Physical Layer classification and transition on the proposed Response Response Status O         "Editor Note: To address in the state machine the case of what should Type 2, 3 and 4 do if the measured IClass is within the range of IClass_LIM or use text only (preffered)."       "The PSE shall complete Multiple-Event Physical Layer classification and transition "The PSE shall complete Multiple-Event Physical Layer classification and transition POWER_IP and POWER_ON attae without allowing the voltage at the PI or pairse below VMark min, unless in the CLASS_RESET_PRI or CLASS_RESET_SEC stat <i>Proposed Response Response Status</i> O <i>Cl</i> 33       SC 33.2.6       P 90       L 5       # 33         Darshan, Yair       Microsemi       Microsemi <i>Comment Type</i> TR <i>Comment Status</i> X         In the following case is not covered:       PSE may successfully detect and classify and power the detected PD."       The following text after Table 33-17:       Numere actass is not restricted. The ILIM-2P value is higher than the value class 5 for Type 3 and 4 PSEs operating with 4-pairs."         No add text that PSE may detect and not continue and go to IDLE or detect and classify and not go to POWER_UP or detect and classify and POWER_UP and not continue to POWER_ON.       Notenot the location with the existing text and	SuggestedRemedy				Suggeste	dRemedy			
if the measured IClass is within the range of IClass_LIM or use text only (preffered)."         Proposed Response       Response Status       O         Cl 33       SC 33.2.6       P 90       L 5       # 33         Darshan, Yair       Microsemi       Comment Type       TR       Comment Status X         In the following text:       "Also, a PSE may successfully detect a PD but then opt not to power the detected PD."       The following case is not covered:       PSE may successfully detect and classify a PD but then opt not to power the detected PD.       SuggestedRemedy         To add text that PSE may detect and classify and not go to POWER_ON.       To find the location with the existing text and update it.       DLE or detect and classify and POWER_UP and not continue to POWER_ON.       Proposed Response       Response Status       O	Add the following Editor N "Editor Note: To address e machine." "Editor Note: To address i	otes: existing "shall" requiremen n the state machine the ca	ts that are not o	covered in the state	Char "The POW below Proposed	ige to: PSE shall com (ER_UP and PC v VMark min, u (Response	plete Multiple-Event Physical L DWER_ON state without allowin nless in the CLASS_RESET_P Response Status <b>0</b>	ayer classification ng the voltage a RI or CLASS_R	on and transition to the t the PI or pairset to go ESET_SEC states."
Proposed Response       Response Status       O         Cl       33       SC 33.2.6       P 90       L 5       # 33         Darshan, Yair       Microsemi       Microsemi         Comment Type       TR       Comment Status       X         In the following text:       "Also, a PSE may successfully detect a PD but then opt not to power the detected PD."       The following case is not covered:         PSE may successfully detect and classify a PD but then opt not to power the detected PD.       To add text that PSE may detect and not continue and go to IDLE or detect and classify and not go to POWER_UP or detect and classify and POWER_UP and not continue to POWER_ON.       Suggest Response         To find the location with the existing text and update it.       Proposed Response       Response Status       O	if the measured IClass is	within the range of IClass_	LIM or use text	only (preffered)."					
Cl 33       SC 33.2.6       P 90       L 5       # 33         Darshan, Yair       Microsemi         Comment Type       TR       Comment Status X         In the following text:       "Also, a PSE may successfully detect a PD but then opt not to power the detected PD."         The following case is not covered:       PSE may successfully detect and classify a PD but then opt not to power the detected PD.         To add text that PSE may detect and classify and POWER_UP and not continue to POWER_ON.       SuggestedRemedy         Ch ags 5 for Type 3 and 4 PSEs operating with 4-pairs."       Proposed Response         POWER_ON.       To find the location with the existing text and update it.	Proposed Response	Response Status <b>O</b>							
Correct Type       TR       Comment Status       X         In the following text:       "Also, a PSE may successfully detect a PD but then opt not to power the detected PD."       The following case is not covered:       PSE may successfully detect and classify a PD but then opt not to power the detected PD.       SuggestedRemedy         To add text that PSE may detect and not continue and go to IDLE or detect and classify and not go to POWER_UP or detect and classify and POWER_UP and not continue to POWER_ON.       SuggestedRemedy       SuggestedRemedy         POWER_ON.       "Add the location with the existing text and update it.       Proposed Response       Response Status       O	Cl 22 SC 22 2 6	Pon	15	# 22	C/ <b>33</b>	SC <b>33.2.8</b> Yair	P <b>103</b> Microsemi	L <b>30</b>	# 35
Comment Type       TR       Comment Status X         In the following text:       "Also, a PSE may successfully detect a PD but then opt not to power the detected PD."       Table 33-17 item 12 class 4 row, min value 0.684.         The following case is not covered:       PSE may successfully detect and classify a PD but then opt not to power the detected PD.       SuggestedRemedy         To add text that PSE may detect and not continue and go to IDLE or detect and classify and not go to POWER_UP or detect and classify and POWER_UP and not continue to POWER_ON.       Change "0.684A" to "0.684^2".         To find the location with the existing text and update it.       Response Status O	Darshan Yair	F 90 Microsemi	L <b>3</b>	# 33	Commen	t Type TR	Comment Status X		
<ul> <li>"Also, a PSE may successfully detect a PD but then opt not to power the detected PD."</li> <li>The following case is not covered:</li> <li>PSE may successfully detect and classify a PD but then opt not to power the detected PD.</li> <li>To add text that PSE may detect and not continue and go to IDLE or detect and classify and not go to POWER_UP or detect and classify and POWER_UP and not continue to POWER_ON.</li> <li>To find the location with the existing text and update it.</li> </ul>	Comment Type <b>TR</b> In the following text:	Comment Status X			Table The f this it	e 33-17 item 12 oot note 2 that em.	class 4 row, min value 0.684. was attached to the 0.684A for	Type 3 and 4 w	as lost after updating
The following case is not covered: PSE may successfully detect and classify a PD but then opt not to power the detected PD. To add text that PSE may detect and not continue and go to IDLE or detect and classify and not go to POWER_UP or detect and classify and POWER_UP and not continue to POWER_ON. To find the location with the existing text and update it. Change "0.684A" to "0.684^2". Add the following text after Table 33-17: "^2 Unbalance at class 4 is not restricted. The ILIM-2P value is higher than the value class 5 for Type 3 and 4 PSEs operating with 4-pairs." <i>Proposed Response Response Status</i> <b>O</b>	"Also, a PSE may succes	sfully detect a PD but then	opt not to pow	er the detected PD."	Suggeste	dRemedy			
and not go to POWER_UP or detect and classify and POWER_UP and not continue to Proposed Response Response Status <b>0</b> POWER_ON. To find the location with the existing text and update it.	The following case is not on PSE may successfully det	covered: sect and classify a PD but t	then opt not to	power the detected PI	0. Char Add t "^2 U class	ge "0.684A" to he following te hbalance at cla	"0.684^2". t after Table 33-17: ss 4 is not restricted. The ILIM of 4 PSEs operating with 4-pair	2P value is higl	ner than the value for
	and not go to POWER_UI POWER_ON. To find the location with th	P or detect and riot continue a e existing text and update	d POWER_UP	and not continue to	Proposed	l Response	Response Status <b>0</b>		
SuggestedRemedy	SuggestedRemedy								
Change to: "Also, a PSE may successfully detect and classify a PD but then opt not to power the detected PD."	Change to: "Also, a PSE may succes: detected PD."	sfully detect and classify a	PD but then of	ot not to power the					
Proposed Response Response Status O	Proposed Response	Response Status <b>O</b>							

CI 33 SC 33	.2.8	P 105	L 36	# 36	CI 33	SC 33.	2.7.1	P <b>97</b>	L 38	# 39
Darshan, Yair		Microsemi			Darshan,	Yair		Microsemi		
Comment Type	R Comr	ment Status X			Comment	Туре Т	R	Comment Status X		
Editor Note #2. under unbalance Due to lake of ti To be discussed SuggestedRemedy See darshan_04	This item is imp e condition. me, this subject I with the group I_0516.pdf for d	ortant for the integrity was not resolved yet how to continue with liscussion details and	r and protection this item and y possible reme	n reliability of the PSE vet meet our time table. dy	The re "If the to the state. Is not There shall's	equirement measured IDLE state covered by are probal	: IClass or clas the sta	is within the range of IClass_ sify the PD as Class 0; a Typ ate machine. r requirements that are not c	LIM, a Type be 2 PSE sha	1 PSE shall either return Il return to the IDLE e state machine and have
Proposed Response	e Respo	onse Status <b>O</b>			Do we I belie simpli	e have rule ve we don' city and re	that tha t. We c adability	at force us to describe shall in an decide according to the c /.	n SM? ost effectivend	ess of it in regards to SM
C/ 33 SC 33	.2.8.4	P 107	L 45	# 37	Suggeste	dRemedy				
Darshan, Yair		Microsemi			Add th	ne following	g Editor	Note:		
Comment Type	<b>Com</b> Comr	ment Status X	-2P		"Edito meas	r Note: To ured IClass	address is with	s in the state machine the ca in the range of IClass_LIM o	se of what sh	ould Type 1 do if the (preffered)."
Equation 33-10 not sufficiently s	must use the Repeated and Reh	chan-2P, so it is not r an-2P is specific per	equired to use 33.1.3.	Rchan/2 while Rchan is	Proposed	Response		Response Status <b>O</b>		. ,
SuggestedRemedy										
1. Change from	"Rchan/2" to "R	chan-2P" in Equation	33-10 in 4 loc	ations.	CI 33	SC 33.	2.6.1	P 90	L <b>52</b>	# 40
To "RChan-2P i	s the channel D	C loop resistance as	defined in 33.1	.3 per pairset.	Darshan,	Yaır		Microsemi		
Proposed Response	e Respo	nse Status <b>O</b>			Comment	Type T	R	Comment Status X		
					"If the	voltage or	either	pairset rises above Vvalid ma	ax (defined in	Table 33–8) during
	2 2 4 4	D 120	1.2	# 20	conne	ction chec	k, the P	SE shall reset the PD by brir	nging the volta	age at the PI below Voff
Darshan, Yair	.3.3.11	Microsemi	L <b>3</b>	# 30	TRes	et (defined in	in Table	e 33–15) before performing c	lassification."	
Comment Type To add dual sig	<b>R</b> Comr PD state machi	nent Status X			We no	eed to defir	ne the ti	me in which we consider the	voltage is ab	ove Vvalid to be imuuned
0					Suggeste	dRemedy				
SuggestedRemedy See proposal fo Proposed Response	r dual-signature Respo	state machine in dar Inse Status <b>O</b>	shan_06_0516	.pdf	Chang "If the than T voltag Table	ge to: voltage or BD msec* e at the PI 33–15) be	either * during below <sup>\</sup> fore per	pairset rises above Vvalid m connection check, the PSE Voff max (defined in Table 33 forming classification."	ax (defined in shall reset the 3–17) for at lea	Table 33–8) **for more e PD by bringing the ast TReset (defined in
					Proposed	Response		Response Status <b>O</b>		

CI 33	SC 33.2.6.1	P <b>90</b>	L <b>40</b>	# 41	CI 33 SC	33.2.8.4.1	P 109	L 1	# 44
Darshan, Ya	air	Microsemi			Johnson, Peter		Sifos Technolo	ogies	
Comment T	ype TR	Comment Status X			Comment Type	т	Comment Status X		
Table 3	3-7 item 3 and th	ne note below.			Rpse_max is Rpse_min is	defined as defined as	"the maximum PSE commo "the minimum PSE common	n mode effec n mode effecti	tive resistance" and ve resistance".
From th mated I start to The req	e note it appears MDI exists Tcc m completion which uirement is not c	s that before we will start connect inimum. And then item 3 require the can be interpreted that total To clear.	ction check v es Tcc_min= cc_min is hig	ve need to wait until full 200msec min from her than 200msec.	This is slightly absolute valu	y confusing les in some	and may infer that there are table somewhere.	e some maxin	num and minimum
The not	e doesn't explair	the Tcc_min.			Change to:	-)			
SuggestedF	Remedy				-				
"NOTE- simultai connec	When a link seg neously. Therefo tion check that in	ment is connected to an MDI, no re, a minimum total time (Tcc_n cludes the time required for full	ot all contact nin) is requir mated MDI a	s are made ed to complete and the time required	Rpse_min i polarity.	s the lowes	t possible effective resistanc	ce in the powe	ered pairs of the same
to perfo	rm the connectio	on check function."			For a given R	pse_min,			
Proposed R	Response	Response Status <b>O</b>			Rpse_max polarity.	is the highe	est possible effecive resistan	nce in the pow	vered pairs of the same
CI 33	SC 33.3.3.10	P 129	L <b>8</b>	# 42	Proposed Respor	nse	Response Status O		
Darshan, Ya	air	Microsemi							
It is not Technic to simp regardir	clear that the sta cally there is no n lify future PD chi ng delaying the lo	ate machine permits Tdelay also leed for it since Type 1 current a p designs we need to allow sam pad current consumption by Tde	o for Type 1. always < PSI le behavior fo lay.	E Inrush_min however or all PD types					
SuggestedF	Remedy								
See da	rshan_07_0516.p	odf for proposed remedy.							
Proposed R	Response	Response Status <b>O</b>							
Cl 33 Johnson, Pe	SC 33.2.5.9	P <b>68</b> Sifos Technologie	L 10 es	# 43					
Comment T The def no men	ype E initions for lport- tion of these vari	Comment Status X 2P-pri and Iport-2P-sec each fin ables in 33.2.8.6.	ish with (see	33.2.8.6), but there is					
SuggestedF	Remedy								
Remove	e the references	to 33.2.8.6							
Proposed R	lesponse	Response Status <b>O</b>							

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

CI 33	SC 33.2.8.6	P 110	L <b>48</b>	# 45	C/ 33	SC 33.2.8	5.7 F	°112	L <b>12</b>	# 46	
Johnson,	Peter	Sifos Techno	logies		Johnson,	Peter	Sife	os Techno	logies		
Commen	t Type <b>T</b> C	Comment Status X			Comment	t Туре <b>т</b>	Comment State	ıs X			
lport- one c unive	2P is defined in two p definition, and given th ersal to all PSE types a	laces, 33.2.8.4 and then e present structure of th and powering modes. B	again in 33.2.8 e standard, that oth 33.2.8.4 and	6. It should have only definition needs to be d 33.2.8.6 infer a	Figure no ILI	es 33-28 and 3 IM definition ar	33-29 include an ILIM ny more.	parameter	on the right verti	cal axis. But there is	
relati	onship between Iport-2	2P and Type 3/4 PSEs.			Presu	umably, these s	should be removed.				
Sugg comr	estion is to broaden th nent. Then move the	ne Iport-2P definition in 3 Iport definition to 33.2.8	33.2.8.4 - that is .4 along side of	covered in a separate the Iport-2P definition.	Suggeste Remo	dRemedy ove ILIM from F	Figures 33-28 and 33-	29.			
Suggeste	dRemedy				Proposed	l Response	Response Statu	s O			
Modii Add f "IPor	fy 33.2.8.4: iirst sentence: t is the total current su	pplied by the PSE to the	e PI."		C/ <b>33</b> Johnson,	SC 33.2.8 Peter	5.7 F Sife	9 <b>112</b> Dis Techno	L 48 logies	# [47	
Modi	ty 33.2.8.6:				Comment	t <i>Tvpe</i> E	Comment Stati	ıs X	0		
Revis	se:				Refer	ences to equat	tions are all off by one	).			
"If IP to	ort, the current supplie	ed by the PSE to the PI,	exceeds ICUT-2	2P for"	Suggeste	dRemedv					
"If IP	ort exceeds ICUT-2P f	or"	Repla	ace with:							
Revis "If IP	se: ort-2P, the current sup	oplied on a pairset by the		"de	scribed by Equ	uation (33-15), Equation	on (33-16),	Equation (33-17	)"		
PI, ex	ceeds ICUT-2P for lo	nger"			Froposed	Response	Response Statu	80			
"If IP	ort-2P exceeds ICUT-	2P for longer"									
Modi	fy Iport definition in 33	.2.5.4:			Cl <b>33</b> Johnson,	SC 33.2.8 Peter	9.7 F Sife	9 <b>113</b> os Techno	L <b>31</b> logies	# 48	
Revis "IPor to	se: t Output current (see	33.2.8.6)."		Comment The li in tho	<i>Type</i> <b>E</b> ist of variables	Comment State beneath Equations 33 PType max VPSE a	<i>is</i> <b>X</b> 3-15, 33-10 and loort-2	6, and 33-17 inclu P-other	ude 3 terms not used		
"IPor	t Output current (see	33.2.8.4)."				ee equationer	· · )po man, · · •=, •				
Proposed	l Response R	esponse Status O									
					Suggeste	dRemedy					
					Remo	ove these terms	S.				

Proposed Response Response Status **O** 

SC 33.2.8.4 C/ 33 SC 33.2.8.7 P 114 # 49 C/ 33 P 106 L 46 # 51 L 16 Johnson, Peter Sifos Technologies Johnson, Peter Sifos Technologies Comment Type TR Comment Status X Comment Type T Comment Status X The list of variables beneath Equations 33-18, 33-19, 33-20 includes the term Icon-2P but This comment may be OBE by presentation. it is 'Icon-2P min' that is used in the equations. This comment may be OBE by presentation. The definition for Icon-2P is okay. Equation 33-7 defines Icon-2P = Pclass / Vpse when in 2-pair mode. Table 33-17 (item 5) SuggestedRemedy defines Icon = Pclass / Vport-PSE-2P. If we assume Vpse (defined in 1.4) is the really the Replace Icon-2P with 'Icon-2P min'. same thing as Vport-PSE-2P (defined in Table 3-17), then Icon-2P is really the same as Icon. Proposed Response Response Status 0 Also, Pclass and Pclass-2P are really defined in EQ 33-2 and EQ 33-3 respectively, not Tables 33-11 and 33-12. C/ 33 SC 33.2.8.4 P 106 L 27 # 50 Johnson, Peter Sifos Technologies SuggestedRemedy Comment Type т Comment Status X Change Equation 33-7 to: This comment may be OBE by presentation. Icon-2P = Icon when in 2-pair mode One area where 33.2.8.4 is written for 4-Pair (Type 3/4) PSE's only: = min(.....) when 4-pair powering a single signature PD = Pclass-2P / Vpse when 4-pair powering a dual signature PD The terms Iport-2P and Iport-2P-other are defined using terms from the Type 3/4 state diagram. These terms have no meaning for 2-Pair powering cases. Iport-2P is then later where used as vertical axis to current templates including those applicable to Type 1/2 PSEs. Pclass is defined in Equation 33-2 Pclass-2P is defined in Equation 33-3 Iport is defined earlier with the Type 1 and Type 2 state machine in 33.2.5.4. that in turn references 33.2.8.6. Proposed Response Response Status 0 SuggestedRemedy One remedy is to add a specificity to Iport-2P definition: Iport-2P

IEEE P802.3bt D1.7 4-Pair Power-over-Ethernet 10th Task Force review comments

= Iport for Type 1 and Type 2 PSE's

= Iport-2P-pri for the Primary Alternative of Type 3 and Type 4 PSEs

= Iport-2P-sec for the Secondary Alternative of Type 3 and Type 4 PSEs

### Iport-2P-other

= Iport-2P-sec for the Primary Alternative of Type 3 and Type 4 PSEs

= Iport-2P-pri for the Secondary Alternative of Type 3 and Type 4 PSEs

Proposed Response Response Status O

Johnson, Peter Sifos Technologies	Johnson, Peter Sifos Technologies						
Comment Type       T       Comment Status       X         This comment may be OBE by presentation.       Another area where 33.2.8.4 is written for 4-Pair (Type 3/4) PSE's only:         "A PSE is not required to support Icon-2P values greater than Icon-2P-unb. Icon is the total current of both pairs with the same polarity that a PSE supports. Icon-2P_unb is the maximum current the PSE supports over one of the pairs of the same polarity"	Comment Type       T       Comment Status       X         This comment may be OBE by presentation.       Another area where 33.2.8.4 is written for 4-Pair (Type 3/4) PSE's only:         "In addition to ICon, ICon-2P and ICon-2P-unb as specified in Table 33–17 and Equation (33–7), the PSE shall support the following AC current waveform parameters, while within the operating voltage range of VPort_PSE-2P:						
SuggestedRemedy         Replace this text.         (New Paragraph)         "When a Type 3 or Type 4 PSE is powering 4 pairs, that PSE is not required to support lcon-2P values greater than lcon-2P-unb. Icon is the total current of both pairs with the same polarity that a PSE supports. Icon-2P_unb is the maximum current the PSE supports over one of the pairs of the same polarity"         Proposed Response       Response Status       O	<ul> <li>IPeak, IPeak-2P-unb, and IPeak-2P minimum for TCUT-2P minimum and 5 % duty cycle minimum, where"</li> <li>SuggestedRemedy <ul> <li>This section needs some work. It probably should be re-written to individually address the three fundamental cases:</li> <li>1) 2-Pair Powering: <ul> <li>Only need to define Ipeak-2P using (Rchan) in quadratic</li> <li>2) 4-Pair Powering Single Signature PD(where Ipeak-2P-unb applies):</li> <li>Define Ipeak, Ipeak-2P, Ipeak-2P_unb using (Rchan/2) in the quadratic</li> <li>3) 4-Pair Powering Dual Signature PD</li> <li>Define Ipeak-2P using (Rchan) and (PPeak_PD-2P) in the quadratic</li> </ul> </li> </ul></li></ul>						
	Proposed Response Response Status O						

C/ 33         SC 33.2.8.4         P 107         L 33         # 54           Johnson, Peter         Sifos Technologies         54	C/ 33         SC 33.2.10.1.2         P 118         L 30         # 55           Johnson, Peter         Sifos Technologies         55						
Comment Type T Comment Status X This comment may be OBE by presentation. There are 2 different equations for Ipeak-2P_unb: EQ 33-9 and EQ 33-11.	Comment TypeTComment StatusXIt seems that this section is not accounting for a Type 3 PSE that powers 2-pair (Class 1- 3). The rules for Type 3 and Type 4 PSEs are written for 4-Pair powering of single signature and dual signature PDs.						
EQ 33-9 describes IPeak-2P_unb as a function of Ipeak that is in turn a function of PSE port voltage and PD load. EQ 33-11 describes IPeak-2P_unb as a function of ILIM-2P, but ILIM-2P is not a function of PSE port voltage or PD load - it is a fixed value greater than ILIM-2P_min. Also, my sample calculation of Ipeak-2P_unb for Class 6 (828mA) produces a figure well higher than ILIM-2P_min (702 mA) for Class 6. Is EQ 33-11 indicating that ILIM-2P_min must be higher than what is in Table 33-17 ?????	SuggestedRemedy Revise: "A Type 1 and Type 2 PSE:" to "A PSE powering with 2 pairs:" Revise: "A Type 3 or Type 4 PSE, when connected to a single-signature PD:" to "A PSE powering a single signature PD with 4 pairs:"						
SuggestedRemedy Not sure what to do here. One option is to just eliminate EQ 33-11. However, if it is adding information relevant to PSE behavior, we need to better capture that.	Revise: "A Type 3 or Type 4 PSE, when connected to a dual-signature PD:" to "A PSE powering a dual signature PD with 4 pairs:" <i>Proposed Response</i> Response Status <b>O</b>						

Proposed Response Response Status **0** 

C/ 33 SC 33.3.7.4 P141 L 49 # 56	C/ 33 SC 33.3.7.4 P 142 L 35 # 57						
Johnson, Peter Sifos Technologies	Johnson, Peter Sifos Technologies						
Comment Type T Comment Status X	Comment Type T Comment Status X						
This commment is a recommendation to separate concepts of extended power to class 6 and class 8 PDs and associated requirements to meet *PSE* output power rather than	This comment may be OBE by another comment I'm submitting for 33.3.7.4.						
*PD* input power requirements from other more general and more widely applicable PD requirements. We also need to better qualify the cases where Class 6 and Class 8 PDs are not subject to Pclass PD and Ppeak PD limits.	Certain phrases are written as if all Class 6 and Class 8 PDs will benefit from extended power. This is contradictory with 33.3.7.2 and needs to be corrected.						
Rationale is that extended power will be applicable only in specialized systems that are engineered to allow certain PD's to operate above Pclass_PD and interoperate with standard compliant PSE's.	Examples: Line 35 "The maximum IPort value for all PDs except those in Class 6 or Class 8"						
SuggestedRemedy	Line 47						
Create new sub-sections 33.7.2.1 and 33.3.7.4.1.	"The maximum iPort value for all PDs in Class 6 or Class 8, over the operating vPort"						
Palacete Class 6 / Class 8 extended nower text formulas, and current templates into	SuggestedRemedy Revise these phrases						
those respective sections.	Line 35						
I will separately provide a document (baseline text) showing what this would look like in johnson_01_0516_Extended_Pwr_baseline_v1.docx.	"The maximum IPort value for PDs that operate across all possible channels, over the operating VPort_PD-2P range"						
Proposed Response Response Status <b>O</b>	Line 47 "The maximum IPort value for Class 6 or Class 8 PDs that are aware of actual channel DC resistance, over the operating VPort_PD-2P range"						
	Proposed Response Response Status O						
	C/ 33 SC 33.3.7.4 P 143 L 6 # 58						
	Jonnson, Peter Siros Technologies						
	Comment Type ER Comment Status X						
	"These equations may be used to calculate PPeak_PD or PPeak_PD-2P for Data Link Layer classification and for Autoclass by substituting PClass_PD with PDMaxPowerValue and PAutoclass_PD respectively."						
	SuggestedRemedy						
	Make it easier to understand:						
	"These equations may be used to calculate PPeak_PD and PPeak_PD-2P from PClass_PD and PClass_PD-2P respectively, or from PDMaxPowerValue utilized in Data Link Layer classification, or from PAutoclass_PD utilized in Autoclass."						
	Proposed Response Response Status O						

C/ 33 SC 33.2.7.1 Lukacs, Miklos	P 97 Silicon Labs	L <b>40</b>	# 59	C/ 33 SC 33.2.5 Lukacs, Miklos	.11. P76 Silicon Labs	L <b>2</b>	# 62		
Comment Type T	Comment Status X			Comment Type E	Comment Status X				
A timing diagram show text and would make th	ing the single event classificati e intent more clear.	on would help	in understanding the	mr pd autoclass refe TACS window.	ers to the signature seen during	the first (long) o	class event, before the		
SuggestedRemedy				SuggestedRemedy					
See timing diagrams pr	esentation (Lukacs)			The PD classification	n signature seen before TACS n	nin during the lo	ong		
Proposed Response	Response Status O			first class event. Proposed Response	Response Status <b>O</b>				
C/ 33 SC 33.2.7.2 Lukacs, Miklos	P <b>99</b> Silicon Labs	L <b>28</b>	# 60	C/ 33 SC 33.2.5	.11 P76 Silicon Labo	L 10	# 63		
Comment Type T A timing diagram showi text and would make th	Comment Status X ing the multiple event classifica e intent more clear.	ation would he	lp in understanding the	Comment Type E A timing diagram sh the text and would r	Comment Status X nowing the classification part of A nake the intent more clear.	Autoclass would	help in understanding		
See timing diagrams pr	resentation (Lukacs)			SuggestedRemedy					
Proposed Response	Response Status O			See timing diagrams presentation (Lukacs)					
				Proposed Response	Response Status 0				
C/ 33 SC 33.2.5.11	P <b>75</b> Silicon Labs	L <b>50</b>	# 61	C/ 33 SC 33.2.5	.8 <i>P</i> 65	L <b>39</b>	# 64		
Comment Type E	Comment Status Y			Lukacs, Miklos	Silicon Labs				
There is a typo here (if) "pd autoclass is set to " to False."	and the text is not precise end True when a class signature if	ough: 0' is detected,	otherwise it is set	Comment Type E A timing diagram sh the text and would r	Comment Status X nowing the cconnection check se nake the intent more clear.	equences would	help in understanding		
SuggestedRemedy				SuggestedRemedy					
pd autoclass is set to T	rue when a class signature of	0' is detected	during the TACS	See timing diagram	s presentation (Lukacs)				
window (no earlier than 33–27), otherwise it is s	TACS min and no later than T set to False.	ACS max, as	defined in Table	Proposed Response	Response Status O				
Proposed Response	Response Status O								

C/ 33	SC 33.2.5.8	P65	L <b>40</b>	# 65	C/ 33	SC 33.3.7.3	P 141	L 8	# 68		
Lukacs, N		Silicon Labs			Picard, Je	an		ients			
Commen	nt Type E	Comment Status X		- the second sector of	Comment	Type TR	Comment Status X	and the state of the second			
CONST "CC_	DET_SEQ" is AL	L CAPS	caps, while the	e other constant	PD In the sp	pec simpler and c	ds to be cleaned up to remove clearer.	e contradicting s	sentences and make		
Suggeste	edRemedy				Suggeste	dRemedy					
They	should be written	similarly, and preferably ALL	CAPS:		See y	/seboodt_10_051	6_pdinrush.pdf				
PAR	AMETER_TYPE				Proposed Response Response Status O						
Proposed	d Response	Response Status <b>O</b>									
		<b>.</b>			CI 33	SC 33.2.5.9	P 66	L <b>46</b>	# 69		
C/ 33	SC 33.2.1	P 47	L 10	# 66	Picard, Je	ean	Texas Instrum	ents			
Lukacs, N		Silicon Labs			Comment	t Type <b>TR</b>	Comment Status X				
Commen In the	<i>it Type</i> <b>E</b> e column header c	3" Comment Status X the meaning of الأ	Short MPS sup	port" is not clear at this	The c is use	class_4PID_mult_ ed in the SM	_events_sec variable is missin	g from the list o	of variables although it		
point	in the document.				Suggeste	dRemedy					
Suggeste	edRemedy				Add th	he following varia	ble from "Picard_03_0316.pd	f" page 1:			
Add a Note more	a note under table 1: TMPS min = 6 e details.	9 33-2: ms, see table 33-17 line 23, cla	ause 33.3.5.2 a	and table 33-29 for	"class A vari	s_4PID_mult_eve iable indicating if	ents_sec: the PSE generates 3 class ev	rents on the sec	condary alternate to		
Proposed	d Response	Response Status O			deterr TRUE 4-pair	mine if the dual s E: the PSE gener r power.	ignature PD is a candidate for ates at least 3 class events to	4-pair power. determine if the	e PD is a candidate for		
C/ 33	SC 33 2 5	P 47	/ 10	# 67	FALS	E: the PSE does	not need to generate 3 class	events to deter	mine if the PD is a		
Lukacs, N	Viklos	Silicon Labs			Proposed	l Response	Response Status 0				
Commen	t Type E	Comment Status X									
It is h	nard to understand	the column header of column	3 "Range of n	naximum classes			<b>D a a</b>	1.00			
supp	orted."				C/ 33 Picard, Je	SC 33.2.5.9	P 66 Texas Instrum	L 39 ients	# 70		
Suggeste	edRemedy				Comment		Comment Status X				
Chan	nge it back to "Max	kimum Class Supported"			"A vai	riable indicating i	f the PSE generates 3 class e	vents to"			
Proposed	d Response	Response Status <b>O</b>			this is	about primary a	Iternate, it should be mentione	ed.			
					Suggeste	dRemedy					
					Repla "A vai	ace with: riable indicating i	f the PSE generates 3 class e	vents on the pri	mary alternate to "		
					Proposed	l Response	Response Status 0				

C/ 33 Picard, Je	SC 33.2.5.12	P <b>79</b> Texas Instrur	L 35 nents	# 71	C/ <b>33</b> Picard, Je	SC 33.2.5.12	P <b>81</b> Texas Instru	L 18 uments	# 74			
Comment Type       TR       Comment Status       X         The IF(CC_DET_SEQ ≠ 2) statement is missing, seems to have been deleted from previous Draft.         SuggestedRemedy         Re-instate the IF(CC_DET_SEQ ≠ 2) statement. Refer to "Picard_02_0316.pdf" page 1         Proposed Response       Response Status       0					Comment Type       ER       Comment Status       X         A parenthesis is missing       SuggestedRemedy       Insert a parenthesis between IF and "dll_4PID"         Proposed Response       Response Status       O							
Cl 33 Picard, Je Comment 2nd li Suggeste Repla both_	SC 33.2.5.12 ean t Type TR ine of equation: sig edRemedy ace 2nd line with (( _neither) * (sig_sec t Response	P 80 Texas Instrur Comment Status X g ≠ valid should read sig_pri det_temp = only_one) * (sig ; ≠ valid) +	<i>L</i> 30 nents ≠ valid. Also "nc ∟pri ≠ valid) + (d	# 72	Cl 33 Picard, Je Comment Figur Suggeste Indica Proposed	SC 33.2.5.12 ean t <i>Type</i> <b>TR</b> e 33-22 only show <i>dRemedy</i> ate in the descripti <i>l Response</i>	P 89 Texas Instru <i>Comment Status</i> X rs the case of SS PD on that this is applicable to <i>Response Status</i> O	L 23 uments SS PD	# [75			
Cl 33 Picard, Je Comment A par Suggeste Repla IF (m	SC 33.2.5.12 ean t Type ER renthesis is missing edRemedy ace with this ir_pse_alternative =	P 81 Texas Instrur Comment Status X g and another is at the wron	<i>L</i> <b>9</b> nents g location. e = 1) +	# 73	Cl 33 Picard, Je Comment PSE Suggeste See y Proposed	SC 33.2.5.12 ean t Type TR MPS monitor State dRemedy vseboodt_07_0516 I Response	P 89 Texas Instru <i>Comment Status</i> X e Diagram for DS PD is mis 6_dsmps.pdf presentation <i>Response Status</i> O	L 23 uments ssing	# <u>76</u>			
((pd_ Proposed	req_pwr > 4) * (psi d Response	e_avaıı_pwr > 4)))   HEN Response Status <b>O</b>			Cl 33 Picard, Je Comment "!" sh Suggeste Remo Proposed	SC 33.2.5.12 ean f <i>Type</i> ER ould NOT be there dRemedy ove the "!" symbol I Response	P 89 Texas Instru <i>Comment Status</i> X e in the left column of Figur to read "mr_mps_valid_su <i>Response Status</i> O	L 21 uments re 33-22 m"	# 77			

CI 33	SC 33.2.5.12	P 89	L 14	# 78	CI 33	SC 33	.2.8.5	P 109	L 16	# 81		
Picard, Jea	n	Texas Instrum	ients		Picard, Je	an		Texas Instru	ments			
Comment 7	Type ER	Comment Status X			Comment	Type 1	ſR	Comment Status X				
missinę	g parentheses				The fo	llowing sta	atement	is incorrect in case where	the PD is class	0-4, in which case a		
Suggested	Remedy				type 3	PSE IS al	lowed to	do inrush with only one 2	<sup>2</sup> channel.			
Middle Right fl	flowchart: (highe owchart: (higest_	st_2p = pri) _2p = sec)			"Type 3 and Type 4 PSEs that apply power to both pairsets when connected to a single- signature PD shall reach the POWER_ON state on both pairsets within TInrush-2P max,							
Proposed F	Response	Response Status <b>O</b>			starting with the first pairset transitioning into the POWER_UP state. The second pairset may transition to POW anytime within this time period."							
C/ <b>33</b> Picard, Jea	SC 33.2.5.12 n	P <b>87</b> Texas Instrum	L <b>40</b> nents	# 79	Suggested Repla	dRemedy ce with thi	s:					
Comment T CLASS	omment Type ER Comment Status X CLASS_EV1_LCE_PRI title is already used somewhere else					3 and Typ the POWI t transitior	e 4 PSE ER_ON s	s that have assigned Classistate on both pairsets with the POWER UP state, where where the power where the pow	s 5 to 8 to a sin n TInrush-2P m ereas the seco	gle-signature PD shall ax, starting with the first nd pairset transitions to		
Suggested	Remedy				POW	ER_UP an	ytime wi	thin this time period."				
Replac CLASS	e with this S EV1 LCE RES	SET PRI. Refer to Picard 02	2 0316.pdf page	9 10	Proposed	Response	<del>)</del>	Response Status 0				
Proposed F	Response	Response Status <b>O</b>										
					CI 33	SC 33	.2.8.7	P 111	L <b>9</b>	# 82		
CL 22	SC 22 2 5 42	Dee	1 40	# [00]	Picard, Je	an		Texas Instru	ments			
Picard Jea	n 30 <b>33.2.3.12</b>	<b>⊢ oo</b> Texas Instrum	L 4U	# 80	Comment Type TR Comment Status X							
Comment 1	Type <b>FR</b>	Comment Status X			There	is an issu	e with al	lowing a Type 4 PSE to ap	ply a 1.3A Upp	erbound template for as		
CLASS	S_EV1_LCE_SEC	C title is already used somew	/here else		class	4 or lower.	. That lev	vel of stress for so long ca	n damage comp	ponents that are not		
Suggested	Remedy				Select	ed for this	amount	of energy, for example the	ata transform	ers of Mag Jacks.		
Replac	e with this			10	Suggested	re Type 4	PSEs to	apply the "Type 3 operation	a current temp	late" when nowering a		
CLASS	S_EV1_LCE_RES	SET_SEC. Refer to Picard_C	02_0316.pdf pag	e 10	Type	1-3 PD .	. 020.0		ig our one tomp			
Proposed F	Response	Response Status O		This means the following sentence: "For Type 4 PSEs, Figure 33–29, Equation (33–17) and Equation (33–20) apply when connected to Type 4 PD, otherwise Figure 33–28, Equation (33–16) and Equation (33–19) apply. "								
					Proposed	Response	)	Response Status O				

<u> </u>	· • • • • •	DEC	1.40	# 00	<u> </u>	SC 22 2		D 400		# 05
Schindler Fred	33.2.5	P 56 Seen Simply	L 13 / Broadco	# 83	C/ 33 Schindler	SC <b>33.3</b> r Fred		P 103 Seen Simply	L <b>30</b> V Broadco	# 85
Comment Type	· • <b>TP</b> Cor	mment Status X			Commen		Comment S		, Broadoo	
Variable pa system so value of pa	arameter_type is us that the electrical p arameter type is no	sed in legacy text to i parameters (ILIM) ma t a constant (p61, L5	ndicate the PSE ty be set based on 3) and is determir	vpe powering the the PSE Type. The ed by mutual	Table	e 33-17, item 12, enced on the Cla	was edited to ad ss-4 row, Min. cc	dress D1.6 o lumn is mis	comment 254. H	owever, the footnote
identificatio	on of the PSE and I	PD. The function set	_parameter_type	s used to set the	Suggeste	edRemedy				
electrical va set based o facilitate se	alues based on tal on class rather thar etting parameters b	ole values. New Typ n Type. The Type 3 ased on class or Typ	es have these sar and 4 state diagra be. Comment D1.0	ne parameters (ILIM) ams (SDs) do not 6 #278 turn the Type 3	"Unb Class	alance at Class 4 s 5."	iote, 1 is not restricted	The ILIM-2	P value is higher	than the value for
and 4 para to perform	meter_type variable a purpose.	e into a constant. Th	ie Type 3 and 4 S	D do not use this name	Proposed	d Response	Response St	atus O		
New PSE 1 parameters	Types are required s is not required or	to do physical classi included in the Type	fication so the faci 3 and 4 SD. Rem	lity to change electrical ove the unnecessary	C/ 33	SC 33.3.3.5		P 124	L <b>3</b>	# 86
use of para	ameter_type in new	text. This comment	may be covered i	n	Schindler	r, Fred	:	Seen Simply	/, Broadco	
SunnalestedRem	$301_01_00_10$				Commen	t Type TR	Comment S	atus X		
Strike lines	40 to 45 on page	65.			The reque	remedy to D1.6, or est should apply	comment 248 ma to legacy state di	y not be cor agrams.	npletely impleme	nted. I believe the
Proposed Resp	oonse Res	oonse Status <b>O</b>			Suggeste	edRemedy				
					Imple "Rep	ement the accept lace all square b	ed solution, rackets with pare	nthesis in st	ate diagrams."	
Cl 33 So Schindler, Fred	C <b>33.2.7</b>	P <b>94</b> Seen Simply	L <b>32</b> /, Broadco	# 84	Proposed	d Response	Response St	atus <b>O</b>		
Comment Type	e TR Cor	nment Status X								
Clause 33 i after readin understand provides de	is designed to perm ng mainly the releva ding of the PSE clas etails on classificati	nit understanding of ant PSE or PD subse ssification section ad ion event response in	the requirements of ections. To aid the d references to the nterpretation.	of the network device reader in e PD section that						
SuggestedRem	nedy									
Modify exis "The assigr events proc	sting text, ned Class is the read duced by the PSE a	sults of the PDs requ as shown in Table 33	ested Class and t 3–11 and Table 33	ne number of class –12."						
with,										
"The assign single-sign events proo	ned Class is the rea ature PDs and Tab duced by the PSE a	sults of the PDs requ le 33-25 for dual-sig as shown in Table 33	lested Class show nature PDs, and th 3–11 and Table 33	n in Table 33-24 for le number of class –12."						
Proposed Resp	oonse Res	oonse Status <b>O</b>								

CI 33 SC 33.2.3.8 P127 L 38 #						
	87 C/ 33	SC	C 33.3.4	P <b>132</b>	L <b>3</b>	# 89
Schindler, Fred Seen Simply, Broadco	Schin	dler, Fred		Seen Simply	v, Broadco	
Comment Type TR Comment Status X	Comr	nent Type	TR	Comment Status X		
Existing sentence, "tpowerdly_timer	Т	ables 33-2	1 and 33-2	2 do not use the same style	as other tables.	
A timer used to prevent Type 2 and Type 3 PDs from drawing more than Type	e 1 power and Suggi	estedReme	edy			
PDs from drawing more than Class 2 power during the PSE's inrush period; s in Table 33–28." Incorrectly covers Type 2 PDs in the Type 3 and 4 section. Type 2 P covered by legacy text on p123.	ee Tdelay-2P R C PDs are C	ecommeno olumn Unit ther colum OMMENT-	d Table 33 t should al ns. Thank -1.	-26 be used as a guide to ac so be relocated to match sty the Editor for exception this	ld missing colum le. Provide edito . This is related	ns, Item, and Symbol. r with license to fill in to comment marked
SuggestedRemedy	Propo	sed Respo	onse	Response Status 0		
Replace the sentence with,"tpowerdly_timer A timer used to prevent Type 3 PDs from drawing more than Type 1 power ar PDs from drawing more than Class 2 power during the PSE's inrush period; s in Table 33–28."	nd Type 4 see Tdelay-2P C/ 33 Schin	SC dler, Fred	C 33.3.4	P 132 Seen Simply	L <b>12</b> v, Broadco	# 90
Proposed Response Response Status O	Comn Fi	<i>nent Type</i> ix the last t ccommoda	TR two rows o ate the num	Comment Status X f Table 33-21 so that Min an nbers within each cell.	d Max columns a	re wide enough to
Cl 33 SC 33.3.4 P 131 L 9 #	88 Sugge	estedReme	edy			
Schindler, Fred Seen Simply, Broadco	S	ee comme	ent for the s	solution.		
Comment Type TR Comment Status X	Propo	sed Respo	onse	Response Status 0		
Existing sentence, "A Type 2 PD presents a non-valid detection signature whe	en in a mark					
event state per Figure 33–32." should apply to all PDs that respond to multiev classfication. Note that the reference figure is incorrect and on reference is n	vent nissing. C/ 33	SC	33.3.4	P 132	/ 5	# 91
SuaaestedRemedv	Schin	dler, Fred		Seen Simply	, Broadco	
Replace the sentence with, "A Type 2, 3 and 4 PDs presents a non-valid dete signature when in a mark event state per Figure 33–31and Figure 33-33."	ection Comm	nent Type	TR	Comment Status X	les 33-21 and 33	-22 use Rdetect as a
Proposed Response Response Status O	S	ymbol (ind	lirectly) as	a reference for different con	ditions.	
	Sugge R	es <i>tedReme</i> eplace the	<i>edy</i> e Rdetect ir	n Table 33-22 with Rdetect_i	nvlaid.	

CI 33	SC 33.3.7.3	P 141	L 35	# 92	C/ 33	SC 33.3.7.6	P 145	L <b>42</b>	# 94
Schindler	, Fred	Seen Simply,	Broadco		Schindler	, Fred	Seen Simply,	Broadco	
-					-				

Comment Type TR Comment Status X

Text previously corrected was changed back to the same undesirable form. It is incorrect to state that a thing has human properties, liking seeing.

#### SuggestedRemedy

#### Existing text:

CPort in Table 33–28 is the total PD input capacitance during the POWER UP and POWER ON states that a PSE sees as load when operating one or both pairsets, when connected to a single-signature PD. CPort-2P in Table 33-28 is the PD input capacitance during the POWER UP and POWER ON states that a PSE sees as load on each pairset independently, when connected to a dual-signature PD.

#### Corrected:

A PSE is connected to CPort in Table 33-28 during POWER\_UP and POWER\_ON states, when connected to a single-signature PD. A PSE is connected to CPort-2P in Table 33-28, on each pairset, during POWER UP and POWER ON states, when connected to a dual-signature PD.

Proposed Response Response Status **O** 

C/ 33	SC 33.3.7.3	P 142	L <b>2</b>	# 93
Schindler, F	Fred	Seen Simply,	Broadco	

Comment Status X Comment Type TR

It is incorrect to state that a thing has human properties, liking seeing.

#### SuggestedRemedy

Figure 33-27 text uses "PSE sees". Replace with, "PSE load capacitance is".

Proposed Response Response Status **O**  Presentation, schindler 1 0915, provides an over view of this section and the details used to add new Types to this section. This section was created to prevent a PSE disconnecting a PD by providing requirements for PDs being subject to PSE transients. Legacy devices used associated Type with a class, and the PSE Type determined ILIM and TLIM limits that the PD need to remain below. New Types support legacy classes using different ILIM and TLIM values. It would be better to base operational requirements of ILIM and TLIM based on assigned PD class.

However, since D1.2, when the requirements we first created, the values of ILIM have changed. Type-3 ILIM moved down from 817 mA to 702 mA. Type-4 moved down from 1.162 A to 0.990 A. A rerun of the SPICE simulation for the Type-3 Extended PD using a 2,250V ramp shows the time to reach a point where the system current is below its limit has increased from 3.5 ms to 8 ms, which is acceptable. A rerun of the SPICE simulation for the Type-4 PD using a 2.250V ramp shows the time to reach a point where the system current is below its limit has increased from 1.7 ms to 5.7 ms, which is acceptable. A rerun of the SPICE simulation for the Type-4 Extended PD using a 2,250V ramp shows the time to reach a point where the system current is below its limit has increased from 4.1 ms to a value that exceeds significantly TLIM, which is NOT acceptable.

#### SuggestedRemedy

Replace text on line 42 on page 145, line 1 on page 146, line 12 on page 146, line 24 on page 146, and line 36 on lpage 146. "The PD shall not exceed the PD upperbound template beyond TLIM-2P min under worst-case current draw under the following conditions.", with

"The PD shall not exceed the PD upperbound template beyond TLIM-2P min and under worst-case current draw for the assigned PD class under the following conditions."

TFT discuss how to deal with the problem with Type-4 Extended power compliance. This could be called out as a concern that these PDs need to deal with by lowering PD bulk capacitance (~240uF appears to work). Recommend that the following sentence be added on page 145 line 24 before the sentence that starts with "A dual-signature..." with. "Type-4 single-signature PDs that consume more than class-8 PClass PD, see 33.3.7.2, shall meet these requirements for the PD bulk capacitance utilized.

Delete the Editor's note at the start of this section.

Proposed Response Response Status 0

CI 33 SC 33.3.7.6	P 145	L <b>40</b>	# 95	C/ 33	SC 33.6.3.5	_	P 175	L <b>9</b>	# 98
Schindler, Fred	Seen Simply,	Broadco		Schindler	Fred	Se	en Simply, E	Broadco	
Comment Type T	Comment Status X			Comment	Type <b>TR</b>	Comment Star	tus <b>X</b>		
Related to a comment	marked COMMENT-1.			The S	San Antonio 2014	meeting presenta	ation, Mutua	I_ID_PD_up	lated, change variable
SuggestedRemedy				3 and powe	4 state diagrams r being provided.	. This was proba	bly done bec	ause Type n	o longer indicates the
Proposed Response	Response Status O			Unfor 1. Bro 2. Bro	tunately, this char bke legacy DLL po bke DLL classifica	nge: ower control.	c		
C/ 33 SC 33.4.2	P 151	L <b>28</b>	# 96	2. Dit		aon for new rype	5.		
Schindler, Fred	Seen Simply,	Broadco		LLDP Type	and the SD on p <sup>2</sup> and not class, we	175 work together need access to v	to provide L ariable that r	LDP field val reports Type.	ues. To reported PSE
Comment Type TR	Comment Status X			Suggeste	dRemedy				
The concerns of D1.6	comments 272 remain unado	ressed.		This o	comment may be	covered in schind	ler_3bt_01_0	05_16.	
The Fault tolerance se section conductor sho that they continue ope	ection covers cases where a F rts. This section should conta rating after a link segment co	PSE is subjected in similar requir nductor open fa	d to faults like link ements for new PDs so ult has been removed.	Proposed	Response	Response Stat	us <b>O</b>		
SuggestedRemedy				CI 33	SC 33.6.4.1		P 176	L 31	# 99
Add the following text	before the third paragraph of	the called out s	ection.	Schindler	, Fred	Se	en Simply, E	Broadco	
"Type-3 and Type-4 Pl link section without da	Ds shall withstand one or mo mage when powered by any I	e conductor op SE."	en failures within the	<i>Comment</i> It is ir	<i>Type</i> <b>TR</b> ncorrect to state th	<i>Comment Stat</i> nat a thing has hu	<i>tus</i> <b>X</b> man properti	es, liking see	ing.
Proposed Response	Response Status 0			Suggeste	dRemedv	-		-	-
				Fxisti	na text:				
				If the	PSE sees a chan	ge to the previous	sly stored Mi	rroredPDReq	uestedPowerValue, it
C/ 33 SC 33.6.3.3	P 172	L 35	# 97	recog	nizes a request by	y the PD to chang	je its power a	allocation.	
Schindler, Fred	Seen Simply,	Broadco		Corre	cted:				
Comment Type ER Editor's notes use com	Comment Status X nment number references with	nout reference t	o which draft was	If the PD to	PSE previously st change its power	tored MirroredPD r allocation is reco	RequestedPo ognizes.	owerValue ch	anges, a request by the
commented on.				Proposed	Response	Response Stat	us <b>O</b>		
SuggestedRemedy									
From now on, please r 1.6 comment #48.	reference using style D1.6 #4	8, where this ex	ample references Draft						
Proposed Response	Response Status 0								

Cl 33         SC 33.6.4.1         P 176         L 44         # 100           Schindler, Fred         Seen Simply, Broadco         Seen Simly, Broadco         Seen Simply, Broadco	C/ 33         SC 33.2.5.9         P 67         L 44         # 103           Stover, David         Linear Technology
Comment TypeTRComment StatusXIt is incorrect to state that a thing has human properties, liking seeing.	Comment Type <b>T</b> Comment Status <b>X</b> The variable dll_4PID is redundant with pd_dll_power_type.
SuggestedRemedy Existing text: If the PD sees a change to the previously stored MirroredPSEAllocatedPowerValue or local_system_change is asserted by the PD so as to change its power allocation, it enters the PD POWER REVIEW state. Corrected: If the PD previously stored MirroredPSEAllocatedPowerValue is changed or local_system_change is asserted by the PD as as to change its power allocation, it enters	SuggestedRemedy         Remove dll_4PID. Replace logic in POWER_ON state as follows:         From: (dll_4PID + ((pd_req_pwr > 4) * (pse_avail_pwr > 4)) + (mr_pse_ss_mode = 1))         To: ((pd_dll_power_type > 2) + ((pd_req_pwr > 4) * (pse_avail_pwr > 4)) + (mr_pse_ss_mode = 1))         Proposed Response       Response Status       O
the PD POWER REVIEW state.	Cl 33 SC 33.2.5.9 P70 L 19 # 104
Proposed Response Response Status O	Stover, David Linear Technology
Cl 79       SC 79.3.2       P 203       L 27       # 101         Schindler, Fred       Seen Simply, Broadco         Comment Type       TR       Comment Status       X         Accepted draft 1.4 comments broke extended power operation using LLDP and DLL. An ad hoc meeting reviewed these concerns during D1.5 review cycle and a very busy person was not able to complete a solution for the D1.6 review cycle.       SuggestedRemedy	Definition of pd_cts_4PID_ph is inconsistent with assignment in PSE SD. This variable indicates that 4PID has been established by confirming that both pairsets have a valid detection signature and that a device classified as a Type 3 or Type 4 PD."         SuggestedRemedy         Replace variable definition as follows: "This variable indicates that a device on the primar pairset classified as a Type 3 or Type 4 PD."         Proposed Response       Response Status       O
A solution should appear in schindler_3bt_02_05_16 or other related presentation for this review cycle.	Cl 33 SC 33.2.5.9 P 70 L 25 # 105
Proposed Response Response Status <b>O</b>	Stover, David Linear Technology
C/ 33     SC 33.2.5.9     P 66     L 39     # 102       Stover, David     Linear Technology	Comment Type TR Comment Status X Definition of pd_cls_4PID_sec is inconsistent with assignment in PSE SD: "This variable indicates that 4PID has been established by confirming that both pairsets have a valid detection signature and that a device classified as a Type 3 or Type 4 PD."
Comment Type E Comment Status X "dual-signature" is hyphenated and not capitalized, per our convention. There are 4 locations where this convention is not followed.	SuggestedRemedy Replace variable definition as follows: "This variable indicates that a device on the secondary pairset classified as a Type 3 or Type 4 PD."
SuggestedRemedy Global search and replace "dual signature" with "dual-signature".	Proposed Response Response Status O
Proposed Response Response Status O	

SC 33.2.5.9 C/ 33 P73 C/ 33 P 80 L 9 L 32 # 106 SC 33.2.5.12 # 109 Stover, David Stover, David Linear Technology Linear Technology Comment Type т Comment Status X Comment Type TR Comment Status X "Shall" statement potentially in conflict with optional PSE behavior. Transition logic in conflict: Out of DETECT EVAL, PSE can be required to follow arcs "A" and "A1" simultaneously. SuggestedRemedy SuggestedRemedy Replace: "PSEs shall issue no more Class events than the Class they are capable of Replace: "(mr pse alternative != both) \* (sig pri = valid) + (det temp = both neither) \* supporting." With: "Type 3 and Type 4 PSEs shall issue no more Class events than the Class they are (sig sec = valid)" With: "(mr pse alternative != both) \* (det temp = only one) \* (sig pri = valid) + (det temp capable of supporting unless a class reset event clears the PD class and mark event counts." = both neither) \* (sig sec = valid)" Proposed Response Proposed Response Response Status 0 Response Status 0 CI 33 C/ 33 SC 33.2.5.12 P 81 L 8 # 110 P73 # 107 SC 33.2.5.10 L 43 Stover, David Linear Technology Stover, David Linear Technology Comment Status X Comment Type т Comment Type т Comment Status X Conditional logic in SS state diagram (POWER\_UP) may be simplified with no change to tcc\_timer is defined but never used in PSE SD. I believe we intentionally removed this from SD in review of D1.6. function. SuggestedRemedy SuggestedRemedy Replace: "IF (mr pse alternative = both) \* (mr pse ss mode = 1) + ((pd reg pwr > 4) \* Remove tcc\_timer from list of Type 3 and Type 4 timers. (pse avail pwr > 4)) THEN" Proposed Response Response Status O With: "If (mr pse alternative = both) \* (mr pse ss mode = 1) + (pd reg pwr > 4) THEN" Proposed Response Response Status 0 C/ 33 SC 33.2.5.11 P 76 L 17 # 108 Stover, David Linear Technology C/ 33 SC 33.2.5.12 P 81 L 20 # 111 Comment Status X Comment Type т Stover, David Linear Technology Propose we add an additional connection check result to express, for example, that the Comment Type Comment Status X т status of the link segment has changed during do cxn chk. Conditional logic in SS state diagram (POWER ON) may be simplified with no change to SuggestedRemedy function. Add a result to sig type: "Invalid: Neither open circuit, nor single-signature PD, nor dual-SuggestedRemedy signature PD connection check signature has been found." Replace: "IF dll 4PID + ((pd req pwr > 4) \* (pse avail pwr < 4)) + (mr pse ss mode = Proposed Response Response Status 0 1)) THEN" With: "IF dll\_4PID + (pd\_req\_pwr > 4) + (mr\_pse\_ss\_mode = 1) THEN" Proposed Response Response Status 0

Cl 33 SC 33.2.5.12 P 81 L 39 # 112	Cl 33 SC 33.2.5.12 P 85 L 30 # 114
Stover, David Linear Technology	Stover, David Linear Technology
Comment Type TR Comment Status X	Comment Type TR Comment Status X
Transition logic from POWER_ON into POWER_DENIED is (power_not_available * !tmpdo_timer_done * etc); Transition logic from POWER_ON into IDLE is (!power_not_available * tmpdo_timer_done * etc). When power_not_available and tmpdo_timer_done are simultaneously TRUE, PSE state machine cannot transition to either IDLE or POWER_DENIED states.	Transition logic from POWER_ON_SEC into POWER_DENIED_SEC is (power_not_available_sec * !tmpdo_timer_done_sec * etc). Transition logic from POWER_ON_SEC into IDLE_SEC is (!power_not_available_sec * tmpdo_timer_sec_done * etc). When power_not_available_sec and tmpdo_timer_sec_done are simultaneously TRUE, secondary alt state machine cannot transition into either IDLE_SEC or POWER_DENIED_SEC states.
Remove "Itmpdo timer done" from transition logic between POWER ON and	SuggestedRemedy
POWER_DENIED.	Remove "!tmpdo_timer_sec_done" from transition logic between POWER_ON_SEC and POWER_DENIED_SEC.
Response Response Status U	Proposed Response Response Status O
C/ 33         SC 33.2.5.12         P 83         L 32         # 113           Stover, David         Linear Technology         1	C/ 33 SC 33.2.5.12 P 86 L 1 # 115
Comment Type TR Comment Status X	Stover, David Linear Technology
Transition logic from POWER_ON_PRI into POWER_DENIED_PRI is (power_not_available_pri * !tmpdo_timer_done_pri * etc). Transition logic from POWER_ON_PRI into IDLE_PRI is (!power_not_available_pri * tmpdo_timer_pri_done * etc). When power_not_available_pri and tmpdo_timer_pri_done are simultaneously TRL primary alt state machine cannot transition into either IDLE_PRI or POWER_DENIED_F states.	Comment Type T Comment Status X Per 33.2.7.2, the PSE shall return to the IDLE state in the event any measured IClass is equal to or greater than IClass_LIM. This is not reflected in the PSE SD. SuggestedRemedy Add transition arcs to the appropriate idle state out of all CLASS_EV states as defined in 33.2.7.2, page 98, Line 25. Transition logic to read, "IClass >= IClass_LIM".
Remove "!tmpdo_timer_pri_done" from transition logic between POWER_ON_PRI and POWER_DENIED_PRI.	Proposed Response Response Status <b>O</b>
Proposed Response Response Status <b>O</b>	C/ 33 SC 33.2.5.12 P 87 L 17 # 116
	Stover, David Linear Technology
	Comment Type T Comment Status X
	Transition logic from CLASS_EV2_PRI to MARK_EV_LAST_PRI redundantly performs a check for !class_4PID_mult_events_pri (was already checked out of CLASS_EV1_LCE_PRI).
	SuggestedRemedy
	SuggestedRemedy Strike the transition arc from CLASS_EV2_PRI to MARK_EV_LAST_PRI.

Cl 33 SC 33.2.5.12 Stover David	P <b>87</b> Linear Techno	L 19	# 117	C/ 33 SC Stover David	33.2.5.12	P 88	L 18	# 120		
	ammont Statua V			Commont Tuno	T Cor	mont Statua V				
Transition logic from CLASS		2 DPI may be	simplified	Transition lo	ic from CLASS		EV/2 SEC may b	o cimplified		
		v2_FRI may be	simplineu.					e simplineu.		
SuggestedRemedy				Suggesteakemedy						
Change transition logic from "tcle2_timer_pri_done * (mr_	CLASS_EV2_PRI to M. pd_class_detected = te	ARK_EV2_PRI mp_var_pri)"	as follows:	change transition logic from CLASS_EV2_SEC to MARK_EV2_SEC as follows: "tcle2_timer_pri_done * (mr_pd_class_detected = temp_var_sec)"						
Proposed Response Re	sponse Status <b>O</b>			Proposed Respo	nse Resj	oonse Status <b>O</b>				
C/ 33 SC 33.2.5.12 Stover, David	P <b>87</b> Linear Techno	L <b>36</b> blogy	# 118	C/ <b>33</b> SC Stover, David	33.2.5.12	P 88 Linear Techr	L <b>35</b> hology	# 121		
Comment Type ER Co State CLASS_EV1_LCE_PF 33.2.7.2	omment Status X RI should read CLASS_E	EV1_LCE_RES	ET_PRI as described in	Comment Type State CLASS in 33.2.7.2	ER Cor S_EV1_LCE_SEC	mment Status X C should read CLASS	S_EV1_LCE_RES	ET_SEC as described		
SuggestedRemedy				SuggestedReme	dy					
Change state name "CLASS	EV1_LCE_PRI" to "CL	ASS_EV1_LCE	_RESET_PRI"	Change state	e name "CLASS_	EV1_LCE_SEC" to "	CLASS_EV1_LC	E_RESET_SEC"		
Proposed Response Re	sponse Status O			Proposed Respo	nse Resj	oonse Status <b>O</b>				
C/ 33 SC 33.2.5.12 Stover David	P 88	L 16	# [119	C/ 33 SC Stover David	33.2.5.12	P 89	L 33	# [122		
		Jogy		Commont Turno	T Cor	mont Statua V	lology			
Transition logic from CLASS check for !class_4PID_mult_ CLASS_EV1_LCE_SEC).	_EV2_SEC to MARK_E _events_sec (was alread	V_LAST_SEC	redundantly performs a of	When PSE is and the PSE states, startir	s in the POWER_ inrush state diag	ON state, both alt_xx ram cycles through I inrush_xxx_timer inde	xx_pwrd and pwr_ DLE_INRUSH an efinitely.	_app_xxx are TRUE d MONITOR_INRUSH		
SuggestedRemedy				SuggestedReme	dy					
Strike the transition arc from	CLASS_EV2_SEC to N	ARK_EV_LAS	T_SEC.	Replace tran	sition logic from I	DLE_INRUSH_PRI t	0 MONITOR_INR	USH_PRI with		
Proposed Response Re		"alt_pri_pwrd * !pwr_app_pri". Replace transition logic from IDLE_INRUSH_SEC to MONITOR_INRUSH_SEC with "alt_sec_pwrd * !pwr_app_sec".								
				Proposed Respo	nse Res <sub>l</sub>	oonse Status <b>O</b>				

CI 33	SC 33.2.6	P <b>90</b>	L <b>6</b>	# 123	C/ 33	SC 33.2	2.7	P <b>96</b>	L 17	# 126
Stover, Da	vid	Linear Techno	ology		Stover, Da	vid		Linear Technol	ogy	
Comment	Туре Т	Comment Status X			Comment	Туре Т		Comment Status X		
Allowa CC_DI from in	ble detection be ET_SEQ 3 is uni vestigating alt_s	havior is inconsistent betwee que in that an invalid detectio sec.	n CC_DET_SEC	Q variants. Particularly, alt_pri prevents PSE	There Link L 33–12	is a note be ayer classif , power clas	elow Ta ication ssificati	able 33–11, power classificat takes precendence over Phy ion for dual-signature PDs, d	ions for single /sical Layer cl oes not have	-signature PDs: "Data assification." Table such a note.
Suggested	lRemedy				Suggestee	Remedy				
Add th alterna	e following text: ative may perform	"A Type 3 or Type 4 PSE det n detection on the other alter	ecting an invalid native."	I PD signature on either	Add a over F	note below hysical Lay	Table ver clas	33–12: "Note: Data Link Lay sification."	er classificatio	on takes precendence
Proposed I	Response	Response Status O			Proposed	Response		Response Status O		
CI 33	SC 33.2.6.1	P 90	L <b>39</b>	# 124	CI 33	SC 33.2	2.7	P 97	L 16	# 127
Stover, Da	vid	Linear Techno	ology		Stover, Da	vid		Linear Technol	ogy	
Comment	Туре Т	Comment Status X			Comment	Туре Т		Comment Status X		
tcc_tim Suggested	ner has been inte IRemedy	entionally removed from PSE	SD, but Tcc ren	nains in Table 33-7.	Uncle outsid for po	ar if PSE is e behavior ( wering a PD	allowe defined ), does	d to investigate classification I in PSE SD; behavior descril not address PSE simply inve	result on vali bed in PSE S estigating bot	d pairsets of a port D addresses valid cases n pairsets of the link.
Remov	ve reference to T	cc on line 27, Table 33-7, an	d accompanying	NOTE on Tcc min.	Suggestee	Remedy				
Proposed I	Response	Response Status <b>O</b>			Add th perfor return	e following m classifica ng to the ID	text: "A ation on DLE sta	A Type 3 or Type 4 PSE conr a any pairset presenting a val ate."	nected to a du id detection s	al-signature PD may gnature prior to
C/ <b>33</b> Stover, Da	SC <b>33.2.7</b> vid	P <b>96</b> Linear Techno	L <b>1</b> blogy	# 125	Proposed	Response		Response Status <b>O</b>		
Comment There to a du	<i>Type</i> <b>T</b> is no indication in ial-signature PD	Comment Status X n Table 33–12 that the PSE i for Type discovery, perform	may, for example class reset, then	e, issue 3 class events issue a number of	C/ <b>33</b> Stover, Da	SC 33.2	2.7.2	P <b>97</b> Linear Technol	L <b>41</b> ogy	# [128
Currented		FSE available power.			Comment	Туре Т	R	Comment Status X		
Suggested	ncte below Tabl	a 33_12: "Note: PSEs may is	sue additional of	lass events to	There	are inconsi	stencie	es between Tpdc, autoclass,	and mutiple-e	vent classification.
determ	nine additional in	formation about the PD and	negotiate power	allocation. See	Suggestee	Remedy				
33.2.7	.2 for details." Re	eference this note in column	header "Number	of PSE class events".	See s	over_01_0	516.pdf	f		
Proposed I	Response	Response Status 0			Proposed	Response		Response Status O		

Cl 33 SC 33.2.7.2 P 98	L <b>4</b> #	129	C/ 33	SC 33	.2.8.5.1	P 110	L <b>32</b>	# 132	
Stover, David Linear Technology	/		Stover, Davi	id		Linear Techn	ology		
Comment Type T Comment Status X			Comment T	ype E	Ξ	Comment Status X			
Requirements and allowances for 4PID, class, and mutu	al identification are un	iclear.	"single-	signature	e" is hyph	enated and not capitalized	d, per our conve	ntion. There are 2	
SuggestedRemedy			location	s where	this conv	ention is not followed.			
Replace sentence: "Type 3 and Type 4 PSEs may issue	a class reset event to	perform	SuggestedF	Remedy					
Mith: "Type 3 and Type 4 PSEs may issue up to 3 class	events to determine F		Giobal search and replace single signature with single-signature.						
Type 3 and Type 4 PSEs incapable of supporting negoti reset event to clear the class and mark event counts."	ated PD Class may iss	sue a class	Proposed R	esponse	9	Response Status <b>O</b>			
Proposed Response Response Status O			CI 33	SC 33	373	P1/1	17	# 133	
			Stover. Davi	id	.5.7.5	Linear Techn	oloav	# 133	
	/1 # [·	130	Comment T	vne T	ſR	Comment Status X	0,		
Stover. David Linear Technology	/	130	PD inpu	it inrush	current re	equirements are inconsiste	ent with other se	ctions of the text.	
Comment Type TR Comment Status X			SuaaestedF	Remedv					
"If any measured IClass is equal to or greater than IClass	s LIM min, a Type 2,	Type 3 or	See sto	ver_02_0	0516.pdf				
Type 4 PSE shall return to the IDLE state." Most importa	antly, this list is missing	g a serial	Proposed R	esponse	, ,	Response Status 0			
comma. Failing that, SISM state machines experiencing return to their resident IDLE_PRI/IDLE_SEC state, and	class overcurrent sho not the global IDLE sta	uld likely ate.	· <b>/</b> · · · · · ·						
SuaaestedRemedy									
"If any measured IClass is equal to or greater than IClas	s_LIM min, a Type 2 F	PSE shall	C/ 33	SC 33	.6.3.2	P 170	L 33	# 134	
return to the IDLE state. If any measured IClass is equa	to or greater than ICla	ass_LIM min,	i rembiay, D	avid		Hewlett Pack	ard Enter		
a Type 3 or Type 4 PSE shall return to the appropriate in	die state."		Comment T	ype E	ER	Comment Status X	470		
Proposed Response Response Status O			Inconsis	stent spe	elling of P	D_DLLMAX_VALUE on III	ne 170:		
	/ 51 # [·	131	Variable quantize	es PD_D ed to fit tl	LL_MAX_ he availa	_VALUE, PD_INITIAL_VA ble resolution.	LUE, and PSE_	INITIAL_VALUE, are	
Stover. David Linear Technology	/		SuggestedF	Remedy					
Comment Type <b>T</b> Comment Status <b>X</b>			Change	PD_DLI	L_MAX_\	ALUE to PD_DLLMAX_V	ALUE		
Guidance on how to handle dual-signature PDs with mis	matched Class/Type of	combinations	Proposed R	esponse	;	Response Status 0			
is unclear for some defined PSE implementations.									
SuggestedRemedy									
Insert the sentence "PSEs powering dual-signature PDs values in Table 33-17 corresponding to the pairset of the Class."	may enforce on both at PD identified as the	pairsets the highest PD							
Proposed Response Response Status O									

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

C/ 33 SC 33.1.3 P 46 L 1 C/ 33 SC 33.2.2 P 47 L 31 # 138 # 135 Yseboodt, Lennart Yseboodt, Lennart Philips Philips Comment Type E Comment Status X Comment Type E Comment Status X "It should be noted that the cable references use "DC loop resistance." which... " "Midspan PSE." period is inside quotes. SuggestedRemedy Wordy. Change to "Midspan PSE". SugaestedRemedv Proposed Response Response Status 0 Less wordv: "The cable references use "DC loop resistance." which ... " C/ 33 SC 33.2.5.4 P 57 L 1 # 139 Proposed Response Response Status 0 Yseboodt. Lennart Philips Comment Type E Comment Status X SC 33.1.3.2 C/ 33 P 46 L 30 # 136 Values are written on same line after word "values:" Yseboodt, Lennart Philips This is hard to read. Comment Type E Comment Status X SuggestedRemedv "Within Clause 33 and its annexes, "channel", as defined in 1.4.134, refers to the electrical Move values to next line and use tabs, like we did for the Type 3+4 variable list. path on which the power signal passes, i.e., the link section." Proposed Response Response Status 0 'Power signal' seems strange. SuggestedRemedy C/ 33 SC 33.2.5.1.1 P 57 L 1 # 140 "Within Clause 33 and its annexes, "channel", as defined in 1.4.134, refers to the electrical Yseboodt, Lennart Philips path on which the power is transferred, i.e., the link section." Comment Status X Comment Type E Proposed Response Response Status 0 original text: "Editors Note (remove D2.0): Text is needed to introduce the specifics of the Type 3 and Type 4 state diagram. Specifically the structure and nomenclature (primary, secondary semi-independent state C/ 33 SC 33.1.3.2 P 47 L 12 # 137 diagrams)." Yseboodt, Lennart Philips SuggestedRemedy Comment Type E Comment Status X Adopt vseboodt 06 0516 sdintro.pdf Table 33-2. We made a change last time to show the "Range of maximum Classes Remove Note. supported". Proposed Response Response Status 0 But no ranges have been defined, only a maximum class. SuggestedRemedy Change 'Range of maximum Classes supported' data from: "Class 3, Class 4, Class 4, Class 4, Class 6, Class 8" to: "Class 3, Class 4, Class 4, Class 3 to 4, Class 3 to 6, Class 8" Proposed Response Response Status 0

## IEEE P802.3bt D1.7 4-Pair Power-over-Ethernet 10th Task Force review comments

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

C/ 33 Yseboodt Le	SC 33.2.5.3	P <b>57</b> Philips	L 13	# [141	Cl 33 Yseboodt	SC 33.2.5.9	P 70 Philips	L 18	# 144
Comment Ty Type stil SuggestedRe Remove	ype E Il has underline. Remedy a underline.	Comment Status X			Comment pd_cls pairse PD.	<i>Type</i> <b>E</b> s_4PID_pri: This variable ts have a valid de	Comment Status X indicates that 4PID has bee etection signature and that a	n established by device classified	confirming that both I as a Type 3 or Type 4
Proposed Re	esponse	Response Status O				Does not me	ntion on which Alternative		
					Suaaeste	dRemedv			
C/ 33 Yseboodt, Le	SC 33.2.5.12 ennart	P 66 Philips	L 18	# 142	pd_cls Altern	s_4PID_pri: This variable ative by confirmir	indicates that 4PID has been that both pairsets have a v	n established or valid detection si	the Primary gnature and that a
alt_pri_p end of th	ype E owrd and alt_sec ne variable nam	Comment Status X c_pwrd do not follow our con ie.	vention of puttir	ng _pri and _sec at the	Proposed	Response	Response Status <b>O</b>		
Same fo	or tinrush_pri_tir	mer and tinrush_sec_timer.			CI 22	SC 22.2.4	D 110	1 44	# 445
SuggestedR	Remedy				Yseboodt.	Lennart	Philips	L 4 I	# 145
Rename Rename Rename Rename	e alt_pri_pwrd =: e alt_sec_pwrd = e tinrush_pri_tim e tinrush_sec_tin	> alt_pwrd_pri => alt_pwrd_sec ner => tinrush_timer_pri mer => tinrush_timer_sec			Comment "Type capat	<i>Type</i> <b>E</b> 3 and Type 4 PD le of accepting po	Comment Status X Dis shall be capable of accept ower on both pairsets."	ing power on eit	her pairset and shall be
Proposed Re	esponse	Response Status <b>O</b>			Suggested Shorte "T	dRemedy er: ype 3 and Type 4	PDs shall be capable of acc	cepting power or	either pairset and both
C/ 33 Yseboodt, Le	SC 33.2.5.9 ennart	P <b>69</b> Philips	L 11	# [143	pairse Proposed	ts." Response	Response Status <b>O</b>		
Comment Ty Commer listed in SuggestedRe Remove Proposed Re	ype E nt #262 / D1.6 a The descriptio 33.5.1. Remedy all the "This va esponse	Comment Status X attempted to fix this but was on of variable mr_pse_enabl alue corresponds with" sen Response Status O	only partially add e duplicates bit tences from mr_	opted. assignments already .pse_enable.	CI 33 Yseboodt, Comment Table The w Suggester Remo	SC 33.3.2 Lennart Type E 33-20, column "C ord "other" in the dRemedy ve "other" in head Response	P 120 Philips Comment Status X Dther optional capabilities" header is obsolete. der. Response Status 0	L 31	# [146

C/ 33 SC 33.3.3.5 Yseboodt, Lennart	P <b>124</b> Philips	L 1	# 147	C/ 33 SC 33.3.5.1 Yseboodt, Lennart	P <b>133</b> Philips	L <b>23</b>	# 150
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
The PD legacy state m	achine has the issue that it is	s incapable of lea	aving the IDLE state.	"Type 2 PDs, Class 4 t DLL classification."	o 6 Type 3 PDs, Type 4 PDs	s, and dual-signat	ure PDs shall provide
See vseboodt 05 051	6 pdsmlegacy.pdf			Better to mention Type	first, then Class.		
Proposed Response	Response Status <b>0</b>			SuggestedRemedy	,		
				"Type 2 PDs, Type 3 C DLL classification."	class 4 to 6 PDs, Type 4 PDs	s, and dual-signat	ure PDs shall provide
Cl 33 SC 33.3.4 Yseboodt, Lennart	P <b>132</b> Philips	L 11	# 148	Proposed Response	Response Status 0		
Comment Type E Table 33-21 column w	Comment Status X			C/ 33 SC 33.3.5.1	P 133	L 41	# 151
Suggested Remedy				Yseboodt, Lennart	Philips		
Format properly.				Comment Type E	Comment Status X		
Proposed Response	Response Status O			"Type 2, Type 3, and T Class 4 or higher, resp	ype 4 PDs operating with a r ond to Single-Event classific	maximum power ation with a Class	draw corresponding to s 4 signature."
				Class 4 sign	ature == class signature `4`.		
C/ 33 SC 33.3.5	P <b>133</b>	L <b>22</b>	# 149	SuggestedRemedy			
Yseboodt, Lennart Comment Type E	Philips Comment Status X			"Type 2, Type 3, and T Class 4 or higher, resp	ype 4 PDs operating with a r ond to Single-Event classific	maximum power ation with class s	draw corresponding to ignature `4`."
"Type 1 PDs and Class	s 1 to 3 Type 3 PDs" is hard	to read.		Proposed Response	Response Status 0		
SuggestedRemedy Change to:				C/ 33 SC 33.3.5.3	P 136	L <b>44</b>	# 152
Type 1 PDs and Type	3 Class 1 to 3 PDs"			Yseboodt, Lennart	Philips		
Proposed Response	Response Status 0			Comment Type E	Comment Status X		
				"VPD rises above VPo (2x)	rt_PD min" in column "Additi	onal information"	had larger font size
				SuggestedRemedy Change font size.			
				Proposed Response	Response Status <b>O</b>		

C/ 33 SC 33.3.7							
Yseboodt, Lennart	.1 P 140 Philips	L <b>4</b>	# 153	C/ 33 SC 33.3.7.3 Yseboodt, Lennart	P <b>141</b> Philips	L 23	# 156
Comment Type E	Comment Status X			Comment Type E C	Comment Status X		
"Note, VPD = VPSE VPD has smaller for	- (R Chan x I Port-2P )" nt size than the rest of equation.			"This delay is required so the Use "or" instead of "and".	hat the Type 2, Type 3 a	nd Type 4 PD do	es not enter".
SuggestedRemedy				SuggestedRemedy			
Change to correct for	ont size.			"This delay is required so th	hat the Type 2, Type 3 or	r Type 4 PD does	s not enter".
Proposed Response	Response Status O			Proposed Response R	esponse Status <b>O</b>		
<i>Cl</i> <b>33</b> <i>SC</i> <b>33.3.7</b> Yseboodt, Lennart	<b>.2.1</b> <i>P</i> 140 Philips	L <b>50</b>	# 154	C/ 33 SC 33.3.7.5 Yseboodt, Lennart	P <b>143</b> Philips	L <b>46</b>	# [157
Comment Type E PPort_PD-2P in equ	Comment Status X uation 33-24 font size is larger th	ian e.g. equatior	า 33-23.	Comment Type E C "NOTEPDs are required to and current than results fro	Comment Status X o meet Equation (33-2) v m Figure 33-38, Figure 3	which results in a 33-39, Equation (;	slightly lower power 33-27) , Equation (33-
Change to correct for	ont size. [Note to self: all Eqs mເ	ust be medium-s	size].	28) and Equation (33-29) ." Font size fluctuates in Note	2.		
Proposed Response	Response Status 0			SuggestedRemedy			
				Make font size consistent.			
C/ 33 SC 33.3.7	.3 P 141 Philips	L <b>22</b>	# 155	Proposed Response R	esponse Status O		
Yseboodt, Lennart							
Yseboodt, Lennart	Comment Status X			C/ 33 SC 33-3-7.6	P 145	/ 23	# 158
Yseboodt, Lennart <i>Comment Type</i> <b>E</b> "T delay-2P for each	Comment Status X	ses the PD powe	ir supply turn on	C/ 33 SC 33.3.7.6 Yseboodt, Lennart	P <b>145</b> Philips	L <b>23</b>	# 158
Yseboodt, Lennart <i>Comment Type</i> <b>E</b> "T delay-2P for each voltage, V On_PD."	Comment Status X	ses the PD powe	er supply turn on	C/ 33 SC 33.3.7.6 Yseboodt, Lennart Comment Type F	P 145 Philips Comment Status X	L 23	# [158
Yseboodt, Lennart <i>Comment Type</i> E "T delay-2P for each voltage, V On_PD." V PD has smaller fo	Comment Status X h pairset starts when V PD cross ont size than V On_PD.	ses the PD powe	ər supply turn on	C/ 33 SC 33.3.7.6 Yseboodt, Lennart Comment Type E C "A single-signature Type 4	P 145 Philips Comment Status X PD with peak power drav	L 23 w that does not e	# 158
Yseboodt, Lennart <i>Comment Type</i> E "T delay-2P for each voltage, V On_PD.' V PD has smaller fo <i>SuggestedRemedy</i> Change to correct for	Comment Status X h pairset starts when V PD cross not size than V On_PD.	ses the PD powe	er supply turn on	Cl 33 SC 33.3.7.6 Yseboodt, Lennart Comment Type E C "A single-signature Type 4 max and has an input capa with regards to transients a	P 145 Philips Comment Status X PD with peak power draw icitance of 360mF or less t the PD PI."	L 23 w that does not e s requires no spec	# 158 xceed P Class PD cial considerations
Yseboodt, Lennart <i>Comment Type</i> <b>E</b> "T delay-2P for each voltage, V On_PD .' V PD has smaller fo <i>SuggestedRemedy</i> Change to correct for <i>Proposed Response</i>	Comment Status X h pairset starts when V PD cross ont size than V On_PD. ont size Response Status <b>O</b>	ses the PD powe	ər supply turn on	Cl 33 SC 33.3.7.6 Yseboodt, Lennart Comment Type E C "A single-signature Type 4 max and has an input capa with regards to transients a "P Class PD" has no under	P 145 Philips Comment Status X PD with peak power draw citance of 360mF or less t the PD PI." line between "P Class" a	L 23 w that does not e s requires no spec and "PD".	# 158 xceed P Class PD cial considerations
Yseboodt, Lennart <i>Comment Type</i> E "T delay-2P for each voltage, V On_PD.' V PD has smaller fo <i>SuggestedRemedy</i> Change to correct for <i>Proposed Response</i>	Comment Status X h pairset starts when V PD cross ont size than V On_PD. ont size Response Status O	ses the PD powe	er supply turn on	Cl 33 SC 33.3.7.6 Yseboodt, Lennart Comment Type E C "A single-signature Type 4 max and has an input capa with regards to transients a "P Class PD" has no under SuggestedRemedy	P 145 Philips Comment Status X PD with peak power draw icitance of 360mF or less t the PD PI."	L 23 w that does not e s requires no spec and "PD".	# 158 xceed P Class PD cial considerations
Yseboodt, Lennart <i>Comment Type</i> <b>E</b> "T delay-2P for each voltage, V On_PD.' V PD has smaller fo <i>SuggestedRemedy</i> Change to correct for <i>Proposed Response</i>	Comment Status X h pairset starts when V PD cross ont size than V On_PD. ont size Response Status O	ses the PD powe	er supply turn on	Cl 33 SC 33.3.7.6 Yseboodt, Lennart Comment Type E C "A single-signature Type 4 max and has an input capa with regards to transients a "P Class PD" has no under SuggestedRemedy Add underline.	P 145 Philips Comment Status X PD with peak power drav icitance of 360mF or less t the PD PI." line between "P Class" a	L 23 w that does not end s requires no spect and "PD".	# 158 xceed P Class PD cial considerations

C/ 33 SC 33.3.7.6 Yseboodt, Lennart	6 P 145 Philips	L <b>31</b>	# 159	C/ <b>33</b> Yseboodt	SC <b>33.3.7.1</b> , Lennart	0 P 147 Philips	L <b>25</b>	# 161			
Comment Type E "A Type 1 PD input ci	Comment Status X urrent shall not exceed the PD	upperbound ten	nplate (see Figure 33-	Commen Secti	<i>t Type</i> <b>E</b> on title "33.3.7.1	<i>Comment Status</i> <b>X</b> 0 PD PI pair-to-pair resistance	e and current unt	palance"			
38) after T LIM min (s applied." "T LIM" does not exis	see Table 33-17 for a Type 1 F	SE) when the fo	llowing input voltage is	Suggeste More	edRemedy apt title: "PD pa	ir-to-pair current unbalance"					
SuggestedRemedy Change to "T LIM-2P	n			Proposed	l Response	Response Status 0					
Proposed Response	Response Status O			C/ <b>33</b> Yseboodt	SC 33.3.7.1	0 P 148 Philips	L 1	# 162			
C/ 33 SC 33.3.7.9 Yseboodt, Lennart	9 P 147 Philips	L 16	# 160	<i>Commen</i> Figur	<i>t Type</i> <b>E</b> e 33-40 has unc	Comment Status X					
Comment Type E "When V Port_PD -2F conductors for Mode Mode B with a 100 kC in Table 33-28. When specified on the cond	Comment Type E Comment Status X "When V Port_PD -2P max is applied across the PI at either polarity specified on the conductors for Mode A according to Table 33-19, the voltage measured across the PI for Mode B with a 100 kOhm load resistor connected shall not exceed V bfd max as specified in Table 33-28. When V Port_PD-2P max is applied across the PI at either polarity				SuggestedRemedy         New title "PD PI pair-to-pair current unbalance test setup"         Proposed Response       Response Status         O						
across the PI for Mod max."	de A with a 100 kohm load resi	stor connected s	hall not exceed V bfd	C/ <b>33</b> Yseboodt	SC <b>33.3.8</b> , Lennart	P <b>148</b> Philips	L <b>26</b>	# 163			
These two lines can b	be merged.			Commen	t Type E	Comment Status X					
SuggestedRemedy "When V Port_PD -2P	P max is applied across the PI	at either polarity	specified on the	"A PI remo	D that does not n ved within the lir	naintain the MPS component nits of T MPDO as specified	s mentioned abov in Table 33-17."	/e may have its powe	эr		
conductors of either N across the PI for the o	Node A or Mode B according to other Mode with a 100 kOhm b	o Table 33-19, th oad resistor coni	e voltage measured nected shall not exceed	"men	tioned above" is	a historic positional referenc	e that no longer n	nakes sense.			
V bfd max as specifie	ed in Table 33-28."			Suggeste	dRemedy						
Proposed Response	Response Status <b>O</b>			Remo Chan "A PI limits	ove "mentioned a lige to: O that does not n of T MPDO as s	above". naintain the MPS component specified in Table 33-17."	s may have its po	ower removed within t	the		
				Proposed	l Response	Response Status O					

C/ 33 SC 33.3.8 P148	L 41	# 164	CI 79	SC 79.3.2	P 203	L <b>29</b>	# 167
Yseboodt, Lennart Philips			Yseboodt,	Lennart	Philips		
Comment Type E Comment Status X			Comment	Туре Е	Comment Status X		
"Type 3 and Type 4 PDs that detect a long first cla reduce T MPS_PD in order to draw a lower stand	ass event in the ra by MPS power."	nge of T LCE_PD may	"Thes used t	e entities allow for data transmi	devices to draw/supply power ssion."	over the sample	generic cabling as
Does not say where to find T LCE_PD.				'sample' sh	ould be 'same' ?		
SuggestedRemedy			Suggestee	dRemedy			
"Type 3 and Type 4 PDs that detect a long first cla defined in Table 33-26, may reduce T MPS_PD in	ass event in the ra order to draw a lo	nge of T LCE_PD, as ower standby MPS	"Thes for da	e entities allow ta transmission	devices to draw/supply power ."	over the same g	eneric cabling as used
Proposed Response Response Status <b>O</b>			Proposed	Response	Response Status O		
Cl 33 SC 33.6.2 P169	L 6	# [165	<i>Cl</i> <b>79</b> Yseboodt,	SC 79.3.2 Lennart	P <b>203</b> Philips	L 36	# 168
Yseboodt, Lennart Philips			Comment	Type E	Comment Status X		
Comment Type E Comment Status X			Figure	e 79-3 uses a di	fferent font than 79-2.		
"Type 2, 3, and 4 PSEs shall send an LLDPDU co	ntaining"		Suaaestee	dRemedv			
PSEs contains underline.			Chang	ge font and drav	ving style to match 79-2.		
SuggestedRemedy Remove underline.			Proposed	Response	Response Status 0		
Proposed Response Response Status <b>O</b>			CL 79	SC 79 3 2	P 203	/ 53	# 169
			Yseboodt,	Lennart	Philips	200	# 103
Cl 33 SC 33.6.3.2 P 169	L <b>44</b>	# 166	Comment	Туре Е	Comment Status X		
Yseboodt, Lennart Philips			The s	econd paragrap	h of 79.3.2 explains that Figure	e 79-3 is a revisi	ion of the original TLV
Comment Type E Comment Status X			define	we have n	009 Annex F.3. ow further revised this TLV with	h new capabilitie	es.
LLDP can support extended power in a better way			Suggestee	dRemedy			
SuggestedRemedy			Add th	ne following afte	er page 204, line 7:		at a dall'i a a l
Adopt yseboodt_01_0516_lldpext.pdf			capab	ilities offered by	Type 3 and Type 4 PSEs and	PDs as defined	d in Clause 33.
Proposed Response Response Status <b>O</b>				Type 3 and	Type 4 PSEs and PDs may us	e these addition	nal fields."
			Proposed	Response	Response Status 0		

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

C/ 79 SC 79.3.2.6	P 206	L <b>49</b>	# 170	C/ 33	SC 33.2.5.9	P 70	L <b>25</b>	# 173
Yseboodt, Lennart	Philips			Yseboodt,	, Lennart	Philips		
Comment Type E	Comment Status X			Comment	Туре Е	Comment Status X		
The Editing instruction (At one point)	is missing the word 'Insert'. t something removed all the v	words "insert" fro	m the draft it seems).	pd_cl	s_4PID_sec: This variabl	e indicates that 4PID has l	been established by	confirming that both
SuggestedRemedy				pairse PD	ets have a valid o	detection signature and that	at a device classifie	d as a Type 3 or Type 4
Add 'Insert' before 'sec	tions'.			TD.				
Proposed Response	Response Status 0				Does not m	ention on which Alternative	Э.	
				Suggeste	dRemedy			
C/ 79 SC 79.3.7.1 Yseboodt, Lennart	P <b>211</b> Philips	L 23	# 171	pd_cl: Altern device	s_4PID_sec: This variabl aative by confirm e classified as a	e indicates that 4PID has l ing that both pairsets have Type 3 or Type 4 PD.	peen established or a valid detection s	n the Secondary ignature and that a
Comment Type E In Table 79-6f on PD m	Comment Status X neasurements, Item 92:91 it r	efers to "Pairset	Alternative A" and "B".	Proposed	Response	Response Status 0		
SuggestedRemedy Since this is the PD, it	should be "Pairset Mode A" a	and likewise for I	3.	C/ 33	SC 33.2.5.9	P 70	L <b>48</b>	# 174
Proposed Response	Response Status 0			Yseboodt,	, Lennart	Philips		
				Comment	Туре Е	Comment Status X		
CI 33 SC 33B	P 232	L <b>36</b>	# 172	Why u In sta	use the negation te diagram is wri	"power_not_available"? itten then (not power_not_	available) and is do	uble negation.
Yseboodt, Lennart	Philips			Suggeste	dRemedy			
Comment Type E "When the PSE is teste	Comment Status X ed for channel common mode	e resistance less	than 0.1 O, i.e. 0 O <	- Cha - Reve - add/	nge to "power_a erse False/True /remove "!" in the	vailable" meaning e state diagram where it is	used.	
ch_x ) to meet I Con-2 to Equation (33-13)."	P-unb requirements and R P	SE_min and R P	SE_max conformance	Proposed	Response	Response Status O		
Rch is the maximum cl Rch_x is simply confus	hannel resistance. Rchan is t sing.	he actual chann	el resistance.					
SuggestedRemedy Replace Rch_x by Rch	nan.							
Proposed Response	Response Status 0							

C/ 33 SC 33.2.5.12	P 80	L <b>9</b>	# 175	CI 33 Si	C 33.2.5.12	P 80	L <b>30</b>	# 178
Comment Type E Figure 33-15, arc from (mr_pse_alternative [?] valid) Missing brackets. SuggestedRemedy ((mr pse alternative [?	Comment Status X DETECT_EVAL to A1 both) * (sig_pri = valid) + (c	let_temp = both_ ((det_temp = bot	neither) * (sig_sec = h neither) * (sig sec =	Comment Type Figure 33-1 (noth_neith SuggestedRem Change to Proposed Resp	E 5, arc from D er) is misspel hedy both_neither.	Comment Status X ETECT_EVAL to A: led.		
valid)) Proposed Response	Response Status O			CI 33 Si Yseboodt, Lenr	C 33.2.5.12 hart	P <b>80</b> Philips	L <b>30</b>	# 179
Cl 33 SC 33.2.5.12 Yseboodt, Lennart Comment Type E Figure 33-15, arc from Brackets are not consis SuggestedRemedy TFTD. Proposed Response	P 80 Philips Comment Status X CXN_CHK_DETECT_EVAL stently used => what was the Response Status 0	L 24 to A: e intent here ?	# <u>176</u>	Comment Type Figure 33-1 () + (mr_p is ambiguou SuggestedRem use bracke () + ((mr_ could also t (() + (mr_ Proposed Resp	5, arc from D ose_alternativ us edy ts probably pse_alternativ be pse_alternativ oonse	Comment Status X ETECT_EVAL to A: e is not both) * (sig_pri is not meant: ve is not both) * (sig_pri is not ve is not both)) * (sig_pri is Response Status <b>O</b>	ot valid) not valid)) not valid)	
Cl 33 SC 33.2.5.12 Yseboodt, Lennart	P <b>80</b> Philips	L <b>30</b>	# 177	C/ 33 Si Yseboodt, Lenr	C 33.2.5.12	P <b>86</b> Philips	L 53	# 180
Comment Type E Figure 33-15, arc from (mr_pse_alternative = the noth_neither) * (sig_section (det_temp = only_one) valid)	Comment Status X DETECT_EVAL to A: both) * ((det_temp = only_or c [?] valid) + ((CC_DET_SE * tdet2det_timer_done)) + (	ne) * (sig [?] valio Q = 0) + (CC_DE mr_pse_alternati	l) + (det_temp = :T_SEQ = 3) * ve [?] both) * (sig_pri [?]	Comment Type C1 exit arro SuggestedRem Widen arro Proposed Resp	E bw not readab hedy w to better fit bonse	Comment Status X le. text. Response Status O		
"sig" doesn`t exist. sig_ SuggestedRemedy Change sig to sig_pri. Proposed Response	pri is meant ? <i>Response Status</i> <b>0</b>							

CI 33 Yseboodt	SC <b>33.2.5.12</b> , Lennart	P <b>89</b> Philips	L <b>3</b>	# 181	C/ <b>33</b> Yseboodt,	SC 33.2.7 Lennart	P <b>95</b> Philips	L <b>43</b>	# 184
Comment Figure "higes	t <i>Type</i> <b>E</b> e 33-22, entry arcs st_2p" is misspelle	Comment Status X s into IDLE_MPS_* id.			Comment Table	<i>Type</i> <b>E</b> 33-11, some rai	Comment Status X nges are very small, maybe bett	er to make it e	explicit.
Suggeste Chan	dRemedy ae to "highest_2P'				Chang	ge "2 to 3" into "2	2, 3".		
Proposed	Response	Response Status O			Proposed	Response	Response Status O		
CI 33 Yseboodt	SC <b>33.2.6.1</b> , Lennart	P <b>90</b> Philips	L 15	# 182	C/ <b>33</b> Yseboodt,	SC <b>33.2.7</b> Lennart	P <b>96</b> Philips	L <b>2</b>	# 185
Comment Vvalio	t <i>Type</i> <b>E</b> d(max) uses brack	Comment Status X ets, this is not convention			Comment Colum Suggested	<i>Type</i> <b>E</b> nn "Assigned Cla d <i>Remedy</i>	Comment Status X ass" is missing in Table 33-12.		
Chan Proposed	ge to Vvalid max. I Response	Response Status <b>O</b>			Add th Proposed	nis column, value <i>Response</i>	es: 1, 2, 3, 3, 4, 5. Response Status <b>O</b>		
C/ 33	SC 33.2.6.7	P <b>93</b> Philips	L <b>51</b>	# 183	CI 33 Yseboodt,	SC 33.2.7 Lennart	P <b>96</b> Philips	L 12	# 186
Comment 4PID Make	<i>Type</i> <b>E</b> in PSE section is this consistent.	Comment Status X named 4P-ID in PD section.			Comment Range Suggestee Chang	<i>Type</i> <b>E</b> es are used with <i>dRemedy</i> ge "4-5" into "4 to	Comment Status X keyword "to" and not a dash.		
Chan	ge "4P-ID" to "4PI	D" throughout the doc.			Proposed	Response	Response Status O		
Proposed	l Response	Response Status <b>O</b>			C/ <b>33</b> Yseboodt,	SC <b>33.2.7</b> Lennart	P 96 Philips	L 12	# [187
					Comment Table	<i>Type</i> E 33-12, ranges a	re very small, maybe better to n	nake it explicit	
					Suggested Chang Do thi	dRemedy ge "1 to 3" into " <sup>,</sup> is for all ranges i	1, 2, 3". n this Table for the "Number of I	PSE class eve	nts" column.
					Proposed	Response	Response Status 0		

C/ 33 SC 33.2.7.2 Yseboodt, Lennart	P <b>100</b> Philips	L 17	# 188	CI 33 SC 33.2.8 Yseboodt, Lennart	.1 P 106 Philips	L <b>1</b>	# 191			
Comment Type E Table 33-15, Item 10 a	Comment Status X and 11, say "See section 33.2.	7.2".		Comment Type E Class 1-4 is not allo	Comment Status X wed.					
SuggestedRemedy Change to "See 33.2.7	.2".			SuggestedRemedy Change to: "Class 1 to 4"						
Proposed Response	Response Status O			Proposed Response	Response Status O					
<i>Cl</i> <b>33</b> <i>SC</i> <b>33.2.7.3</b> Yseboodt, Lennart	P <b>101</b> Philips	L 33	# 189	<i>Cl</i> <b>33</b> <i>SC</i> <b>33.2.8</b> Yseboodt, Lennart	.4.1 <i>P</i> 108 Philips	L <b>30</b>	# 192			
Comment Type E Autoclass margin form	Comment Status X ula is not described but is def	ined in this sect	ion.	Comment Type E "Type 3 and Type 4 this section."	Comment Status X PSEs operating over 4-pair are	subject to unbal	ance requirements in			
SuggestedRemedy "P_ac_margin is the m to allocate enough pow P_ac_margin is define	inimum amount of power the ver to cope with increases in c d in Equation (33-4)."	PSE must add t hannel resistan	to P_Autoclass in order ce due to heating.	SuggestedRemedy "This section descril over 4-pair."	bes unbalance requirements for	r Type 3 and Typ	e 4 PSEs that operate			
Proposed Response	Response Status <b>O</b>			Proposed Response	Response Status <b>O</b>					
<i>Cl</i> <b>33</b> <i>SC</i> <b>33.2.7.3</b> Yseboodt, Lennart	P <b>101</b> Philips	L <b>43</b>	# 190	<i>Cl</i> <b>33</b> <i>SC</i> <b>33.2.8</b> Yseboodt, Lennart	.4.1 <i>P</i> 108 Philips	L <b>39</b>	# 193			
Comment Type E "PAutoclass in Watts"	Comment Status X dimension should not be plura	al.		Comment Type E "Icon-2P-unb is spe	Comment Status X cified for total channel common	n mode pair resist	ance from"			
SuggestedRemedy Change to "PAutoclass	s in Watt"			SuggestedRemedy Change to:						
Proposed Response	Response Status O			"Icon-2P-unb applie Proposed Response	s for the total channel common Response Status <b>O</b>	mode pair resist	ance ranging from"			

CI 33	SC 33.2.8.5	P 109	L 10	# 194	C/ 33	SC 33.2.8.7	P 114	L <b>22</b>	# 197
Yseboodt,	Lennart	Philips			Yseboodt,	Lennart	Philips		
Comment	Туре Е	Comment Status X			Comment	Type E	Comment Status X		
"POWI POWE and Ty	ER_UP mode occ R_UP state on th rpe 2 PSEs that m	curs on each pairset between at pairset and either the expin	the PSE's tran ation of T Inrus	sition to the sh-2P or, for Type 1 of PD inrush currents	"A PS LIM w	E in the POWER	R_ON state may remove pow oltage no longer meets the \	er from a pairset / Port_PSE-2P s	without regard to T pecification."
on that	pairset (see 33.3	3.7.3 and legacy_powerup in 3	33.2.5.4)."		T LIM	does not exist.			
The ten seems If not =	rm "POWER_UP to be identical to > replace by POV	mode" is only used 3 times ir the POWER_UP state. Is the NER_UP.	n the doc, all in ere a difference	this section, and ?	Suggestee "A PS LIM-2	<i>dRemedy</i> E in the POWEF P when the pairs	R_ON state may remove pow et voltage no longer meets th	er from a pairset ne V Port_PSE-2	without regard to T P specification."
Suggested	Remedy				Proposed	Response	Response Status O		
Chang Chang	e "POWER_UP n e 33.2.8.5 sectior	node" to "POWER_UP". a title to "Output current during	g POWER_UP	,					
Proposed I	Response	Response Status <b>0</b>	-		C/ 33	SC 33.2.8.1	B P 115	L 37	# 198
		,			Yseboodt,	Lennart	Philips		
					Comment	Type E	Comment Status X		
CI 33 Yseboodt,	SC 33.2.8.5 Lennart	P 110 Philips	L 9	# 195	"Type reach	3 and Type 4 P3 the POWER_OI	SEs, when connected to a sir N state within T pon after dete	ngle-signature PI ection on last pai	D, both pairsets shall rset."
Comment	Туре Е	Comment Status X			Bad E	nglish.			
Equati	on 33-14 uses val	riable y1.			Suggestee	dRemedy			
Suggested	Remedy	heither a yu or a yz, we can a	iso rename it to	) 1.	"Type POW	3 and Type 4 Ps ER_ON state wit	SEs, when connected to a sir hin T pon after completing de	ngle-signature PI etection on the la	D, shall reach the st pairset."
Renam	ne 'y1' to 'i' in Equ	ation and variable list.			Proposed	Response	Response Status 0		
Proposed I	Response	Response Status O							
CI 33	SC 33.2.8.5.1	P 110	L 37	# 196	C/ <b>33</b> Yseboodt,	SC 33.2.10.7	I.1 P 117 Philips	L <b>25</b>	# 199
Yseboodt,	Lennart	Philips			Comment	Туре Е	Comment Status X		
Comment	Туре Е	Comment Status X			Table	33-18 is formatt	ed differently from every othe	er Table in the do	с.
"during	the POWER_UF	period".			Suggestee	dRemedy			
Suggested Shorte	Remedy r:				- Rem - F	iove 'bold' from s Fix item numberi	ubtable headers (eg. "AC signs to be numerical (1, 2, 3,	nal parameters") .)	)
" dur Also oi	ing POWER_UP n line 44	"			Proposed	Response	Response Status 0		
Proposed I	Response	Response Status O							

C/ 33 SC 33.2.10. Yseboodt. Lennart	<b>1.2</b> <i>P</i> <b>118</b> Philips	L <b>32</b>	# 200	C/ 33 SC 3 Yseboodt, Lennart	3.2.6.1	P <b>90</b> Philips	L <b>52</b>	# 203
Comment Type F	Comment Status ¥			Comment Type	FR C	comment Status X		
The DC MPS Type 1 a the first 3 items (line 3 This is already sta	and Type 2 requirements (the 32, 34 and 36/37). Ited above and is not needed	dashed list), stil here.	say "the applicable" in	"If the voltage of connection che max (defined in classification "	on either pair ck, the PSE Table 33-17	set rises above Vvalid n shall reset the PD by br r) for at least TReset (de	nax (defined in Tainging the voltag	able 33-8) during e at the PI below Voff 3-15) before performing
SuggestedRemedy				olassinoation.				
Remove "the applicab	le" three times.			This	way of referr	ing to Tables is used no	where else in the	e Draft.
Proposed Response	Response Status 0			SuggestedRemedy				
C/ 1 SC 1	P1 Philips	L 1	# 201	"If the voltage of connection che max, as defined performing clas	on either pair ck, the PSE d in Table 33 sification."	set rises above Vvalid n shall reset the PD by br -17, for at least TReset,	nax, as defined ir inging the voltag , as defined in Ta	n Table 33-8, during e at the PI below Voff ble 33-15, before
	Fillips			Proposed Respons	e Re	esponse Status <b>O</b>		
Comment Type ER Do you want me to res	Comment Status X set the change bars in Clause	33 for D1.8 ?		· ·				
SuggestedRemedy Indicate YES/NO.				C/ 33 SC 3 Yseboodt, Lennart	3.2.6.4	P <b>93</b> Philips	L 11	# 204
Proposed Response	Response Status O			Comment Type original text: "C	ER C AUTION	comment Status X	tain DC isolation	through the
C/ 1 SC 1	P1 Philips	L 1	# 202	termination circ Format and pos	uitry to elimi sition of this	nate cross-port leakage note is inconsistent with	currents." 802.3-2015.	
	Commont Status			SuggestedRemedy				
Comment Type ER	$Comment Status \mathbf{X}$	actting rid of all	Editor's Notos	Follow same st	yle as 802.3	-2015.		
	or D2.0 in July, we need to be	getting nu or all	Luitor 5 Notes.	Proposed Respons	e Re	esponse Status <b>O</b>		
SuggestedRemedy Remove all Editor's N	otes that do not specifically sa	ay "remove prior	to publication".	, ,		,		
Proposed Response	Response Status 0							

CI 33	SC 33.2.7.2	P <b>97</b>	L <b>48</b>	# 205	CI 33	SC 33.	.2.7.2	P 98	L <b>38</b>	# 207
Yseboodt,	Lennart	Philips			Yseboodt	Lennart		Philips		
Comment	Type ER	Comment Status X			Comment	Туре Е	ER	Comment Status X		
"PD cla 33-12 a	assification signa and Table 33-14	ature measurements of I ( ."	Class are specified	in Table 33-11, Table	"Whe pairse	n the Type et V Mark .	2 PSE The tim	is in the state MARK_E ing specification shall b	V2, the PSE shall p e as defined by T N	provide to the PI or ME2.
mappir	Tables 33-11 ng.	and 33-12 are not releva	ant to the IClass to	class signature	Whe MAR	n the PSE (_EV_LAS	is in the T_SEC,	e state MARK_EV_LAS the PSE shall provide	T, MARK_EV_LAS to the PI or pairset	T_PRI and V Mark . The timing
Suggested	Remedy				speci	ication sha	all be as	defined by 1 ME2."		
"PD cla	assification signa	ature measurements of I	Class are specified	in Table 33-14."	Can	be merged	d withou	t changing meaning.		
Proposed I	Response	Response Status 0			Suggeste	dRemedy				
					"Whe	n the PSE	is in the	state MARK_EV2, MA	RK_EV_LAST, MA	RK_EV_LAST_PRI and
					MAR	K_EV_LAS	T_SEC,	the PSE shall provide	to the PI or pairset	V Mark . The timing
C/ 33	SC 33.2.7.2	P 98	L <b>25</b>	# 206	speci	ication sha	all be as	defined by 1 ME2."		
Yseboodt,	Lennart	Philips			Proposed	Response	•	Response Status <b>O</b>		
Comment	Type ER	Comment Status X								
On p.9 "In ti CLASS LASS_ ASS_E PSE st	8, line 25 we have he states CLASS S_EV1_LCE_SE EV3_PRI,CLAS EV5,CLASS_EV1 hall measure I Cl	/e: 5_EV1, CLASS_EV1_LC C,CLASS_EV2,CLASS_E S_EV3_SEC,CLASS_EV I_LCE_RESET_PRI, and lass after T Class and cla	E, CLASS_EV1_LC EV2_PRI,CLASS_E 4,CLASS_EV4_PR I CLASS_EV1_LCE Issify the PD based	E_PRI, V2_SEC,CLASS_EV3,C I,CLASS_EV4_SEC,CL _RESET_SEC, the on the observed	CI <b>33</b> Yseboodt Comment The it	SC 33. Lennart <i>Type</i> E em sorting	<b>.2.7.2</b> E <b>R</b> in Table	P 99 Philips <i>Comment Status</i> X e 33-15 has become co	L <b>30</b> nfusing and seems	# 208
current	."				Suggeste	dRemedy				
Follo "All i This m transie	owed on p99, line measurements o easurement is re nts."	e 5: f I Class shall be taken a eferenced from the applic	fter T Class , as de ation of V Class mi	fined in Table 33-15. n to ignore initial	Sort T TME1	able 33-15 Voltages Currents Timing: 1 , TME2	5 in the f : VClass : IClass TReset,	ollowing way: s, VMark, VReset _LIM, IMark_LIM, TClass, TClass_LCE, <sup>¬</sup>	pdc, TLCE, TCLE	1, TCLE2, TCLE3,
Lono longer	g and tedious to really true.	read. Also, "classify the F	PD based on the ob	served current" is no	Proposed	Response	•	Response Status 0		
Suggested	Remedy									
Replac	e both by inserti "In all CLASS s	ng on p98, line 25: tates except CLASS_EV <sup>-</sup>	1_AUTO, the PSE s	shall measure I Class	<i>CI</i> <b>33</b> Yseboodt	SC 33. Lennart	.2.7.2	P <b>99</b> Philips	L <b>30</b>	# 209
ignore	initial transients.		Tom the application		Comment	Туре Е	ER	Comment Status X		
Proposed I	Response	Response Status 0			Itemc	ount is wro	ong in Ta	able 33-15, item 6 is list	ed twice.	
,	,				Suggester Fix.	dRemedy				
					Proposed	Response	,	Response Status 0		
						,				

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

Comment ID 209

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<i>CI</i> <b>33</b> Yseboodt,	SC 33.2.7.3 Lennart	P <b>101</b> Philips	L 10	# 210	C/ <b>33</b> Yseboodt,	SC 33.2.8.5.1 Lennart	Р <b>110</b> Philips	L <b>32</b>	# 212	
Comment	Type ER	Comment Status X			Comment	Type ER	Comment Status X			
"If the	PSE implements Performs see	Autoclass and the connecte ms a weird word here.	d PD performs A	Autoclass,".	"A Type 4 PSE, when connected to a single signature PD with assigned Class 7 or Class 8, may implement a minimum I Inrush lower than defined in Table 33-17, but not less than					
Suggested	lRemedy				0.4A re	ed Class 7 or Class	a Type 4 PSE is connected	d to a single-sig ish than which is	nature PD with s defined in Table 33-	
"If the classifi	PSE supports Au ication,"	toclass and the connected F	D requests Auto	oclass during	17, it s combir	hall successfully pation of 360 mF a	ower up a single-signature and a Class 2 load within T	PD comprised Inrush-2p min w	of a parallel /ithout startup	
Proposed I	Response	Response Status O			oscillat resista	tions during the P nce of 0.10hm to	OWER_UP period, when co 12.5ohm per pairset."	onnected to the	PD through a channel	
					Firs	st two sentences	are very repetitive.			
CI 33	SC 33.2.8	P 104	L 13	# 211	Sugaested	Remedv				
Yseboodt,	Lennart	Philips			Shorte	r:				
Comment	Type ER	Comment Status X				"A Type 4 PSE	, when connected to a sing	le signature PD	with assigned Class 7	
Additio wastag	onal info for Table ge.	33-17, item 17, TRise is too	long for this fie	d causing vertical	or Clas less th	ss 8, may impleme an 0.4A respectiv	ent a minimum I Inrush lowe ely. Such a PSE shall succ	er than defined i essfully power u	n Table 33-17, but not p a single-signature PD	
Suggested	IRemedy				compri without	sed of a parallel o	ns during the POWER UP	a Class 2 load V	within 1 Inrush-2p min	
- Add t	he following to 33	3.2.8.1			through	h a channel in the	range of 0.1 ohm to Rch pe	er pairset."		
POWE	"TRise is refe R_ON state from - Replace add	renced from 10 % to 90 % o the beginning of POWER_U ditional information field by "\$	f the voltage diff JP." See 33.2.8.1"	erence at the PI in	Proposed I	Response	Response Status <b>O</b>			
Proposed I	Response	Response Status 0								

C/ 33 SC 33.2.8.5 Yseboodt, Lennart	5.1 <i>P</i> 110 Philips	L <b>39</b>	# 213	C/ <b>33</b> Yseboodt,	SC 33. Lennart	3.7.3	P 14 Philips	<b>41</b> S	L <b>7</b>	# 215
Comment Type ER "A Type 4 PSE, wher implement a minimul	Comment Status X n connected to a dual signature m I Inrush and I Inrush-2P lowe	PD with assigr r than defined i	ned Class 5, may n Table 33-17, but not	<i>Comment</i> The P text. I	<i>Type</i> <b>E</b> D inrush set t doesn`t se	R ection i eem to	Comment Status is particularly troubles improve.	X some. Ho	ow many times	have we tweaked this
less than 0.4A and 0. PD with assigned Cla shall successfully por mF and a Class 2 (TI thePOWER_UP perio to 12.5ohm per pairs	.2A respectively. When a Type ass 5 and uses a lower I Inrush wer up a dual-signature PD co BD) load within T Inrush-2p mir od, when connected to the PD et."	4 PSE is conne -2P than thosec nprised of a par without startup through a chanr	acted to a dual-signature lefined in Table 33-17, it allel combination of 110 o oscillations during nel resistance of 0.10hm	Suggester Comp Proposed	dRemedy bletely new Response	text, ac	dopt yseboodt_10_05 Response Status	016_pdin	rush.pdf	
First two sentenc SuggestedRemedy	es are very repetitive.			<i>CI</i> <b>33</b> Yseboodt,	SC <b>33</b> . , Lennart	3.7	P <b>23</b> Philips	<b>31</b> S	L <b>52</b>	# 216
Shorter: "A Type 4 PSE, wher implement a minimur less than 0.4A and 0 signature PD compris within T Inrush-2p mi connected to the PD	n connected to a dual signature m I Inrush and I Inrush-2P lowe .2A respectively. Such a PSE s sed of a parallel combination of in without startup oscillations do through a channel resistance of	PD with assign r than defined in hall successfull 110 mF and a uring the POWE f 0.10hm to Rcl	ned Class 5, may n Table 33-17, but not y power up a dual- Class 2 (TBD) load R_UP period, when h per pairset."	Comment "Selec verific circuit	<i>Type</i> <b>E</b> cted resista ation to Ec implemen PARS	R ance va juation tation a E_ERF	Comment Status alues for RPSE_max a (33-13) or control ICc and as such are left to ROR.	X and RPS on-2P-un o the des	E_min which p b value are de igner."	provide adequate pendent upon PSE
Proposed Response	Response Status O			Suggester I don`	dRemedy t know whe	ere to b	begin. What does this	mean ?		
Cl 33 SC 33.2.10 Yseboodt, Lennart Comment Type ER "Figure 33-20 shows Bad reference.	P 116 Philips Comment Status X the PSE monitor state diagram	L 14 IS."	# 214	Proposed	Response		Response Status	0		
SuggestedRemedy "Figure 33-14 shows	the PSF monitor state diagram	is for Type 1 an	d Type 2 PSEs. Figure							

"Figure 33-14 shows the PSE monitor state diagrams for Type 1 and Type 2 PSEs. Figure 33-22 and Figure 22-23 show the PSE monitor state diagrams for Type 3 and Type 4 PSEs."

Proposed Response Response Status **0** 

C/ 33 SC 33.2.7.2 Yseboodt, Lennart	P <b>99</b> Philips	L <b>20</b>	# 217	C/ 33 SC 33.2.5 Yseboodt, Lennart	.8 P 65 Philips	L <b>40</b>	# 219
Comment Type <b>TR</b> original text: "Classifica True for single-signatur Also problematic for Ty The original intent of th	Comment Status X ation events may appear on o re, not for dual. rpe 1 and Type 2 PSEs.	one or both pairs	ets."	Comment Type <b>T</b> original text: "param 3: Type 3 PSE para 4: Type 4 PSE para The legacy SD, use are now using parat	Comment Status X neter_type: Values: meter values meter values" s PSE_TYPE for the purpose v meter type in the new SD	we	
<ul> <li>"4-pair" class events f</li> <li>alternating class even</li> <li>other creative classified</li> </ul>	for single-sig PDs its between pairsets cation games			We did this, becaus between the DLL SI SuggestedRemedy	e parameter_type is used in th M and the PSE SM needs to be	e DLL state mach properly looked	nine. The link however at anyway and revised.
The sentences that dea leave to do all of this.	al with applying Vclass alrea	dy say "to the PI	or pairset", granting	- Rename paramete "PSE_TYPE A constant indicatin	er_type to PSE_TYPE.		
SuggestedRemedy We no longer need the	quoted sentence. Remove i	t.		Values: 3: Type 3 PSE 4: Type 4 PSE"	g		
Proposea Response	Response Status <b>O</b>			Proposed Response	Response Status O		
C/ 33 SC 33.2.5 Yseboodt, Lennart	P 56 Philips	L <b>7</b>	# 218	C/ 33 SC 33.2.5 Yseboodt, Lennart	<b>.9</b> <i>P</i> 68 Philips	L 12	# 220
Updates to the PSE Sta	ate Diagram			Comment Type <b>T</b>	Comment Status X		
SuggestedRemedy Adopt yseboodt_11_05	i16_psestatedia.pdf			SuggestedRemedy			
Proposed Response	Response Status 0			Change to highest_ Proposed Response	2P. Response Status <b>O</b>		

CI 33	SC 33.2.5.9	P 70	L 39	# 221	C/ 33	SC 33.2.5.12	2 <i>P</i> 86	L <b>52</b>	# 224
Ysebood	t, Lennart	Philips			Yseboodt	, Lennart	Philips		
Commen	t Type <b>T</b>	Comment Status X			Comment	t <i>Туре</i> <b>Т</b>	Comment Status X		
origir simil:	nal text: "Editors N ar to pd_dll_power	ote: Mutual identification will r	equire a variab	le pd_power_type	Figur	e 33-19, arc from	MARK_EV_LAST to C1 ha	as no condition.	
Suggeste Reme pd_p	ed <i>Remedy</i> ove Editors note a ower_type	nd replace it by:			Suggeste Add o Proposea	aRemedy condition: "tme2_' I Response	timer_done". <i>Response Status</i> <b>0</b>		
A cor indica	ntrol variable outpo ates the Type of P	ut by the PSE power control st D as advertised through Phys	ate diagram (F ical Link Layer	igure 33-49) that classification.					
Value 1: PE	es: ) is a Type 1 PD o	r a Type 3 PD (default)			C/ <b>33</b> Yseboodt	SC <b>33.2.7</b> , Lennart	P <b>95</b> Philips	L <b>25</b>	# 225
2: PL 3: PE	) is a Type 2 PD, a ) is a Type 3 PD	a Type 3 PD, or a Type 4 PD			Comment	t Type <b>T</b>	Comment Status X		
4: PE	) is a Type 4 PD	Response Status 0			" wi	th a maximum va	lue defined in Table 33-11	of the correspondir	ig PD Class and a
					Suggeste	dRemedy			
C/ 33 Yseboodi	SC 33.2.5.10	P <b>75</b> Philips	L 31	# 222	Shou PD a	ld be assigned C " with a mand a minimum of	ass to be completely clear. aximum value defined in Ta 4.0 Watts."	ble 33-11 of the Cl	ass assigned to the
Common					Proposed	l Response	Response Status 0		
The 33.2.	Type 1 Type 3/4 State dia 5.10.	gram does not use or need a	tpdc_timer, but	it is defined in	, ropeced	ricoponeo			
Suggeste	dRemedy								
Rem	ove tpdc_timer fro	m 33.2.5.10							
Proposed	l Response	Response Status 0							
CI 33	SC 33.2.5.12	P <b>79</b>	L <b>1</b>	# 223					
Ysebood	t, Lennart	Philips							
Commen	t Type <b>T</b>	Comment Status X							
Entry pse_ I hav prece	r arc into IDLE: reset + error_conc e not found any m edence over OR, b	lition * (mr_pse) can be am ention of a defined order of op out this is not a universal truth.	biguous peration. Conve	ention is for AND to take					
Suggeste	edRemedy								
Use I pse_	brackets wheneve reset + (error_con	r ambiguity is possible. dition * (mr_pse)).							
Proposed	l Response	Response Status <b>O</b>							

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

C/ 33 SC 33.2.7	P 96	L 29	# 226	C/ 33	SC 33.2.8.7	P 111	L 14	# 228
Yseboodt, Lennart	Philips			Yseboodt,	, Lennart	Philips		
Comment Type <b>T</b> We removed the PD equiv covered that information. T We can get rid of the table	Comment Status X valent of Table 33-13 in the The same is true in the PS	e PD section, be E section.	ecause the text already	Comment "Whe power either	<i>Type</i> <b>T</b> n connected to a r from both pairse pairset."	Comment Status X single-signature PD, a Type 3 ts before the current exceeds	or Type 4 PSE the "PSE uppe	should (TBD) remove rbound template" on
SuggestedRemedy				Suggeste	dRemedy			
Remove Table 33-13.				See/a	dopt yseboodt_0	4_0516_pse4p.pdf		
Change the text on page 9 "Subsequent to successfu using at least one of the fo	97, line 4-12 as follows: I detection, all Type 2 PSI blowing: Multiple-Event Pt	Es ***shall*** pe hysical Layer cla	rform classification ssification; Multiple-	Proposed	Response	Response Status <b>O</b>		
Event Physical Layer class Physical Layer classification Subsequent to successful classification using at leas classification; or Multiple-E classification. Both pairset and Type 4 PSEs that will	sification and Data Link La on and Data Link Layer cla detection, all Type 3 and t one of the following: Mul Event Physical Layer class is attached to a dual-signa deliver 4-pair power."	ayer classificatio assification. Type 4 PSEs ** tiple-Event Phys ification and Da ture PD shall be	n; or Single-Event *shall*** perform sical Layer ta Link Layer e classified by Type 3	C/ <b>33</b> Yseboodt, Comment "A Tyı than c as de	SC 33.2.10.1 , Lennart <i>Type</i> <b>T</b> pe 1 and Type 2 I or equal to I Hold- fined in Table 33-	2 P 118 Philips Comment Status X PSE: - shall not remove power 2P max continuously for at lea 17."	L 40 r from the PI wh ast T MPS ever	# 229 nen I Port is greater y T MPS + T MPDO ,
Proposed Response F	Response Status O			Th for Ty Se	nis final shall is in pe 3 and Type 4. ee: hstewart 01	consistenly worded compared	l to the "do not i	remove power" shalls e intent was.
C/ 33 SC 33.2.8.5.1	P 110	L <b>40</b>	# 227	Suggeste	dRemedy			
Yseboodt, Lennart Comment Type T "When a Type 4 PSE is co a lower IInrush-2P than the signature PD comprised o within TInrush-2p min with TInrush-2p ppin with	Philips Comment Status X onnected to a dual-signatu ose defined in Table 33-1 f a parallel combination of out startup oscillations du	rre PD with assig 7, it shall succes 110 uF and a C ring the POWER	gned Class 5 and uses sfully power up a dual- class 2 (TBD) load 2_UP period, when	Repla  T_MP Proposed	ice by: shall not remove S + TMPDO wind <i>Response</i>	power from the PI when DC N low." Response Status <b>O</b>	/IPS has been p	present within the
Unclear that this	s requirement applies per	pairset.	bonn per panset.					

#### SuggestedRemedy

Replace by:

"When a Type 4 PSE is connected to a dual-signature PD with assigned Class 5 and uses a lower IInrush-2P than those defined in Table 33-17, it shall successfully power up a dual-signature PD comprised of a parallel combination of 110 uF and a Class 2 (TBD) load \*\*\*on each pairset\*\*\* within TInrush-2p min without startup oscillations during the POWER\_UP period, when connected to the PD through a channel resistance of 0.1ohm to 12.5ohm per pairset."

Proposed Response Response Status **0** 

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

Comment ID 229

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C/ 33         SC 33.2.10.1.2         P 118         L 40         # 230           Yseboodt, Lennart         Philips	C/ 33 SC 33.2.10.1.2 P 119 L 19 # 231 Yseboodt, Lennart Philips						
Comment Type T Comment Status X	Comment Type T Comment Status X						
"A Type 1 and Type 2 PSE: - shall not remove power from the PI when I Port is greater than or equal to I Hold-2P max continuously for at least T MPS every T MPS + T MPDO , as defined in Table 33-17."	"A Type 3 or Type 4 PSE, when connected to a dual-signature PD: -may maintain power on a pairset if DC MPS has been present on that pairset every T MPS + T MPDO."						
	Is inconsistent in describing the timing requirements. SuggestedRemedy "-may maintain power on a pairset _when_ DC MPS has been present on that pairset _within_ the T MPS + T MPDO _window"						
"A Type 3 or Type 4 PSE, when connected to a single-signature PD: -shall not remove nower from the PL when DC MPS has been present within the T MPS + T MPDO window							
This allows a PD to minimize its power consumption."							
"A Type 3 or Type 4 PSE, when connected to a dual-signature PD: shall not remove power from a pairset when DC MPS has been present on both pairsets every T MPS + T MPDO ."	Proposed Response Response Status <b>O</b>						
These shalls are essentially meaningless. PSEs may remove power for any reason.	C/ 33 SC 33.3.3 P 121 L 13 # 232						
The PSE shall remove power in the case of overcurrent, or Vport-2P being out of spec.	Yseboodt, Lennart Philips						
This is to protect against bad MPS implementations that remove power when they shouln`t.	Comment Type T Comment Status X Updates to the PD State Diagram						
SuggestedRemedy	SuggestedRemedy						
Add a condition 'unless there is a non-MPS related reason to do so':	Adopt yseboodt_12_0516_pdstatedia.pdf						
"A Type 1 and Type 2 PSE: - shall not remove power from the PI, unless there is a non- MPS related reason to do so, when I Port is greater than or equal to I Hold-2P max continuously for at least T MPS every T MPS + T MPDO, as defined in Table 33-17."	Proposed Response Response Status O						
(Note: merge the above with the other comment that touches this if adopted).	C/ 33 SC 33.3.6 P137 L1 # 233						
"A Type 3 or Type 4 PSE, when connected to a single-signature PD: -shall not remove	Yseboodt, Lennart Philips						
power from the PI, unless there is a non-MPS related reason to do so, when DC MPS has	Comment Type T Comment Status X						
consumption."	"The default value of pse_power_level is 3. After a successful Multiple-Event Physical Layer classification has completed the pse_power_level is set to either 3, 4, 6, or 8. After a						
"A Type 3 or Type 4 PSE, when connected to a dual-signature PD: shall not remove power from a pairset, unless there is a non-MPS related reason to do so, when DC MPS	either 1, 2, 3 or 4."						
has been present on both pairsets every 1 MPS + 1 MPDO ."	Obviously impossible.						
Proposed Response Response Status <b>O</b>	SuggestedRemedy						
	Change last sentence to: "After a successful Data Link Layer classification has completed, the pse_power_level is set to either 3, 4, 6 or 8."						
	Proposed Response Response Status O						

IEEE P802.3bt D1.7 4-Pair Power-over-Ethernet 10th Task Force review comments C/ 33 SC 33.3.7 P 138 L 29 # 234 C/ 33 SC 33.4.9.1.5 P 161 L 26 # 236 Yseboodt, Lennart Yseboodt, Lennart Philips Philips Comment Type **T** Comment Status X Comment Type T Comment Status X Table 33-28, item 8 and 9 say "single-signature PD only" and "dual-signature PD only" Both sections are new text. SuggestedRemedy 33.4.9.1.5 Maximum link delay says "The propagation delay contribution of the Remove the word 'only'. Midspan PSE device shall not exceed 2.5 ns from 1 MHz to the highest referenced frequency." Proposed Response Response Status **O** 33.4.9.1.6 Maximum link delay skew says "The propagation delay contribution of the Midspan PSE device shall not exceed 1.25 ns from 1 MHz to the highest referenced # 235 frequency." C/ 33 SC 33.3.7.6 P 145 L 11 Yseboodt, Lennart Philips The requirement is the same, with different value, and it seems that 33.4.9.1.6 Comment Type T Comment Status X should say something on skew? The PD transients section contains many duplicate requirement text blocks which can be SuggestedRemedy merged and the differences captured in a Table. TFTD We love Tables. Is this correct? SuggestedRemedy Proposed Response Response Status 0 Adopt vseboodt 09 0516 pdtransient.pdf Proposed Response Response Status 0 C/ 79 SC 79.3.2.6a.2 P 207 L 37 # 237 Yseboodt, Lennart Philips Comment Type **T** Comment Status X The PSE power class field is described as: "The power class field shall contain an integer value for PSE Classes defined by 33.2.6. A TLV generated by a PD shall set the field to 0000." This doesn't say if it should be assigned or requested Class. Assigned Class seems logical. SuggestedRemedy - Remove the underline and strikethrough

- Change to read:

"The power class field shall contain an integer value for the assigned Class by the PSE as defined in 33.2.6. A TLV generated by a PD shall have the field set to 0000."

Proposed Response Response Status **O** 

Cl <b>79</b> Yseboodt	SC <b>79.3.2.6b.3</b>	P 208 Philips	L <b>31</b>	# 238	C/ <b>33</b> Yseboodt	SC <b>33.2.5.9</b>	P 85 Philips	L <b>35</b>	# 240
Comment In Tat evolut	<i>Type</i> <b>T</b> Collection tions we made in definitions by the provided in the finitions of the provided in the finition of the provided in the finition of the provided in the pro	Comment Status X 79.3.2.6b.3 the "PD PI" I ning single and dual sign	bit is described. ature PDs, this t	Given the recent bit no longer serves any -signature PDs in a	Comment We ad	<i>Type</i> <b>TR</b> dopted a new MF It works greating	Comment Status X PS state diagram last cycle. at for single-signature, but doo S	es not address d	ual-signature, which
prope Suggester - Ren - Cha "1 = F	r way. <i>dRemedy</i> ame "PD PI" to "PD N nge value of item 2 in 2D requested power a	lode selection" Table 79-6b to read: pplies to Mode A pairset			Suggester Adopt Proposed	dRemedy : yseboodt_07_0 : Response	516_dsmps.pdf Response Status <b>O</b>		
0 = P - Cha "This reque type is	nge text in 79.3.2.6b.3 field shall be set acco sting power when the s PSE."	prines to mode B pairset 3 to read: ording to Table 79-6b to s power type is PD. This f	elect the Mode ield shall be set	for which the PD is to 0 when the power	C/ 33 Yseboodt, Comment	SC <b>33.2.7</b> Lennart	P <b>94</b> Philips Comment Status X	L <b>33</b>	# 241
Proposed	Response R	esponse Status <b>O</b>			"When assigr	n a PD requests ns the PD Class	a higher Class than a Type 3 3, 4, or 6, whichever is the hig	or Type 4 PSE of the of the off the of	can support, the PSE support."
C/ <b>33</b> Yseboodt,	SC <b>33.2.5.9</b> , Lennart	P 68 Philips	L 17	# 239	Suggester	Doesn`t take dRemedy	e dual-signature PDs into acc	ount.	or Type 4 PSE con
Comment "mps_ sum c	<i>Type</i> <b>TR</b> C _sum A variable indica of IPORT-2P of both p	Comment Status X ting that the PSE uses the vairsets to determine if th	e method consis e DC MPS com	sting of measuring the ponent is present."	suppo suppo can su suppo	ort, the PSE assignation ort, the PSE assignation ort. When a dual- upport, the PSE ort."	gns the PD Class 3, 4, or 6, w signature PD requests a high assigns the PD Class 3 or 4, v	whichever is the h er Class than a <sup>-</sup>	lighest that it can Type 3 or Type 4 PSE highest that it can
signat	This does not hig ture PD.	phlight that mps_sum ma	y only be TRUE	in case of a single-	Proposed	Response	Response Status <b>O</b>		
Suggester "mps_ sum c mps_	dRemedy _sum A variable indica of IPORT-2P of both p sum may only be set	ting that the PSE uses th airsets to determine if th to TRUE when connecte	e method consis e DC MPS comj d to a single-sig	sting of measuring the ponent is present. nature PD."	Cl <b>33</b> Yseboodt, Comment Table	SC <b>33.2.7</b> Lennart <i>Type</i> <b>TR</b> 33-12 uses two	P 96 Philips Comment Status X dashes in the first column, ro	L 13	# 242
Proposed	Response R	Response Status <b>O</b>			Suggestee Repla	<i>dRemedy</i> ice dash by the v	vord 'to'.		
					Proposed	Response	Response Status 0		

C/ 33 SC 33.2.7.1 P 97 L 32 # 243 C/ 33 SC 33.2.7.2 P 99 L 11 # 245 Yseboodt, Lennart Yseboodt, Lennart Philips Philips Comment Type **TR** Comment Status X Comment Type **TR** Comment Status X "All measurements of I Class shall be taken after the minimum relevant class event timing "If the PSE returns to the IDLE state, it shall maintain the PI voltage at VClass for a period in Table 33-15." of at least TReset min before starting a new detection cvcle." We now have T Class for this. - VClass should be VReset - Also, that same requirement holds for PSEs that are in the CLASS RESET SuggestedRemedy states. "All measurements of I Class shall be taken after T Class, as defined in Table 33-15." SuggestedRemedv Proposed Response Response Status 0 "If the PSE returns to the IDLE state, it shall maintain the PI voltage at VReset for a period of at least TReset min before starting a new detection cycle. If the PSE is in any of the CLASS RESET states, it shall maintain the PI or pairset voltage at VReset for a period of at least TReset min." C/ 33 SC 33.2.7.2 P 97 L 41 # 244 Yseboodt, Lennart Philips - Remove the sentence on page 99, line 26 which says: "When the PSE is in the state CLASS RESET PRI or CLASS RESET SEC the Comment Type TR Comment Status X PSE shall provide to the PI V Reset, subject to the T Reset timing specification." The specification of Autoclass in the Multiple-event section can be improved. Proposed Response Response Status 0 SuggestedRemedy Adopt yseboodt\_08\_0516\_autoclass4.pdf Proposed Response Response Status 0 C/ 33 SC 33.2.7.3 P 101 L 13 # 246 Yseboodt, Lennart Philips Comment Type **TR** Comment Status X "TAUTO PSE1 and TAUTO PSE2 timing is referenced from the transition of the POWER UP or SET PARAMETERS state to the POWER ON state." SET\_PARAMETERS state no longer exists. SuggestedRemedy "TAUTO\_PSE1 and TAUTO\_PSE2 timing is referenced from the transition of the POWER UP state to the POWER ON state."

IEEE P802.3bt D1.7 4-Pair Power-over-Ethernet 10th Task Force review comments

Proposed Response Response Status **O** 

Cl 33       Cl 33 <td< th=""><th></th><th></th><th>/ 05</th><th># 0.47</th><th><u> </u></th><th>SC 22</th><th>40.4.0</th><th>D 440</th><th>/ 50</th><th># 040</th></td<>			/ 05	# 0.47	<u> </u>	SC 22	40.4.0	D 440	/ 50	# 040		
Comment Type       TR       Comment Status X         There are several inconsistencies/errors identified in the PSE power section.         SuggestedRemedy         Adopt yseboodt_02_0516_power.pdf         Proposed Response       Response Status         Q       33       SC 33.2.10.1.2       P118       L26       # [248]         Yseboodt_Lonant       Philips       Proposed Response       The 'nay' statement overlaps with the two shalls for certain combinations of current. For example, if the jort-2P currents are 1mA and BmA respectively, the first 'shall' say MPS is PRESENT.         Comment Type       TR       Comment Status X         "A PSE, depending on the connected Type of PD, shall use the applicable I Hold min, I Hold ~2P.       The 'nay' statement however is also True, indicating that MPS may be PRESENT OR ABSENT.         SuggestedRemedy       "A PSE, depending on the connected Type of PD and whether it is a single-, or dual-signature PD' needs to become and 'and': - change 'or to 'and' on page 118, line 49         Ya PSE, depending on the connected Type of PD and whether it is a single-, or dual-signature PD' needs to become and 'and': - change 'or to 'and' on page 118, line 49         SuggestedRemedy       "A PSE, depending on the connected Type of PD and whether it is a single-, or dual-signature PD' needs to meet.         SuggestedRemedy       "A PSE, depending on the connected Type of PD and whether it is a single-, or dual-signature PD' needs to meet.         SuggestedRemedy	Yseboodt, Lennart	Philips	L <b>23</b>	# 247	Yseboodt,	Lennart		Philips	L <b>32</b>	# 249		
There are several inconsistencies/errors identified in the PSE power section. Suggested/Remedy Adopt ysebood_02_0516_power.pdf Proposed Response Response Status 0 Cr 33 SC 33.2.10.1.2 P118 L 26 # 248 Yseboodt, Lennart Philips Comment Jype TR Comment Status X 'A PSE, depending on the connected Type of PD, shall use the applicable I Hold min, I Hold max, T MPS and T MPDO values as defined in Table 33-17.' Needs to mention L_Hold-2P. Suggested/Remedy 'A PSE, depending on the connected Type of PD and whether it is a single-; or dual- signature PD, isaali use the applicable I Hold, I Hold-2P, T MPS and T MPDO values as defined in Table 33-17.' Proposed Response Response Status 0 Cr 33 SC 33.3.4 P 131 L 1 # 250 Cr 340 SC 33.3.4 P 131 L 1 # 250 Cr 340 SC 33.3.4 P 131 L 1 # 250 Cr 340 SC 33.3.4 P 131 L 1 # 250 Cr 340 SC 33.3.4 P 131 L 1 # 250 Cr 340 SC 33.3.4 P 131 L 1 # 250 Cr 340 SC 33.3	Comment Type TR	Comment Status X			Comment	Туре Т	R Cor	nment Status X				
SuggestedRemedy Adopt yseboodt_02_0516_power.pdf         Proposed Response       Response Status         O         C1 33       SC 33.2.10.1.2         P118       L 26         Yseboodt_Lennart       Philips         Comment Type       TR       Comment Status X         "A PSE, depending on the connected Type of PD, shall use the applicable I Hold min, I Hold max, T MPS and T MPDO values as defined in Table 33-17."       Needs to mention I_Hold-2P.         SuggestedRemedy       "A PSE, depending on the connected Type of PD and whether it is a single-, or dual- signature PD, shall use the applicable I Hold, I Hold-2P, T MPS and T MPDO values as defined in Table 33-17."       To wold overlap, the two shall statements for 'A Type 3 or Type 4 PSE, when connected to a single-signature PD' needs to become and 'and: - change 'or' to 'and' on page 118, line 49         Proposed Response       Response Status       O         (2) 33       SC 33.3.4       P 131       L 1       # 250         (2) 33       SC 33.3.4       P 131       L 1       # 250         (2) 33       SC 33.3.4       P 131       L 1       # 250         (2) 33       SC 33.3.4       P 131       L 1       # 250         Viseboodt, Lennart       Philips       Comment Status X       A SE St. The Comment Status X       A SE St. The Comment Status X       A SE St. The Comment Status X	There are several inc	consistencies/errors identified i	n the PSE powe	r section.	For T	/pe 3 and 4	PSEs, conn	ected to a single-sign	ature PD, there a	are 2 'shalls' and a		
Proposed Response       Response Status       O         Cl 33       SC 33.2.10.1.2       P 118       L 26       # [248]         Yseboodt, Lennart       Philips       Comment Status X       * [248]         ''A PSE, depending on the connected Type of PD, shall use the applicable I Hold min, I Hold-2P.       SuggestedRemedy       * A PSE, depending on the connected Type of PD and whether it is a single-, or dual-signature PD, shall use the applicable I Hold. I Hold-2P, TMPS and T MPDO values as defined in Table 33-17."       The 'may' statement overlaps with the two shall statements need to be made more narrow.         SuggestedRemedy       * A PSE, depending on the connected Type of PD and whether it is a single-, or dual-signature PD, shall use the applicable I Hold. I Hold-2P, TMPS and T MPDO values as defined in Table 33-17."       The 'may' statement overlaps with the two shall statements need to be made more narrow.         Proposed Response       Response Status       O         "A PSE, depending on the connected Type of PD and whether it is a single-, or dual-signature PD, shall use the applicable I Hold. I Hold-2P, TMPS and T MPDO values as defined in Table 33-17."       The 'may' statement overlaps with the two shall statements or 'A Type 3 or Type 4 PSE, when connected to a single-signature PD, shall use the applicable I Hold. I Hold-2P, or the first 'shall'         Proposed Response       Response Status       O         Cl 33       SC 33.3.4       P 131       L 1       # [250]         Cl 33       SC 33.3.4       P 131	SuggestedRemedy Adopt yseboodt_02_	0516_power.pdf			'may' OR A can b	that determ BSENT. The e true at the	ine if DC MP ese requirem same time.	'S component is eithe nents should not overl	er PRESENT, AB lap, ie, only one o	SENT or PRESENT of those 3 conditions		
Cl 33       SC 33.2.10.1.2       P118       L 26       # 248         Yseboodt, Lennart       Philips         Comment Type       TR       Comment Status X         "A PSE, depending on the connected Type of PD, shall use the applicable I Hold min, I Hold max, T MPS and T MPDO values as defined in Table 33-17."       To avoid overlap, the two shall statements need to be made more narrow.         SuggestedRemedy       "A PSE, depending on the connected Type of PD and whether it is a single-, or dual-signature PD, shall use the applicable I Hold, I Hold-2P, T MPS and T MPDO values as defined in Table 33-17."       To avoid overlap. The "or "or "and" on page 118, line 49         Proposed Response       Response Status       O       Cl 33       SC 33.3.4       P 131       L 1       # [250]         Comment Type       TR       Comment Status X       APD is either a single-, or a dual-signature Pol.       O         SuggestedRemedy       "A PSE, depending on the connected Type of PD and whether it is a single-, or dual-signature PD, shall use the applicable I Hold, I Hold-2P, T MPS and T MPDO values as defined in Table 33-17."       Cl 33       SC 33.3.4       P 131       L 1       # [250]         Proposed Response       Response Status       O       Cl 33       SC 33.3.4       P 131       L 1       # [250]         Comment Type       TR       Comment Status X       A PD is either a single-, or a dual-signature device. The determination	Proposed Response	Response Status <b>O</b>			Th Fo savs I	ne 'may' sta or example, MPS is PRE	ement overl if the Iport-2 SENT.	aps with the two shall P currents are 1mA a	ls for certain com and 6mA respecti	nbinations of current. ively, the first 'shall'		
Comment Type       TR       Comment Status X         "A PSE, depending on the connected Type of PD, shall use the applicable I Hold min, I Hold max, T MPS and T MPDO values as defined in Table 33-17."       To avoid overlap, the two shall statements need to be made more narrow.         SuggestedRemedy       "A PSE, depending on the connected Type of PD and whether it is a single-, or dual-signature PD, shall use the applicable I Hold, I Hold-2P, T MPS and T MPDO values as defined in Table 33-17."       The 'or in the first two shall statements for "A Type 3 or Type 4 PSE, when connected to a single-signature PD, and use the applicable I Hold, I Hold-2P, T MPS and T MPDO values as defined in Table 33-17."         Proposed Response       Response Status       O         Cl 33       SC 33.3.4       P 131       L 1       # [250]         Comment Type       TR       Comment Status X         A PD is either a single-, or a dual-signature device. The determination of single/dual impacts nearly every requirement.       Yesboodt, Lennart       Philips         Comment Type       TR       Comment Status X       A PD is either a single-, or a dual-signature device. The determination of single/dual impacts nearly every requirement.         Yesboodt_03_0516_pdsig.pdf       Yespoodt_03_0516_pdsig.pdf       Proposed Response       Response Status       O	C/ 33 SC 33.2.10 Yseboodt, Lennart	<b>0.1.2</b> <i>P</i> <b>118</b> Philips	L <b>26</b>	# 248	TH	ne may state NT.	ement howev	ver is also True, indica	ating that MPS m	nay be PRESENT OR		
"A PSE, depending on the connected Type of PD, shall use the applicable I Hold min, I Hold max, T MPS and T MPDO values as defined in Table 33-17." Needs to mention I_Hold-2P. SuggestedRemedy "A PSE, depending on the connected Type of PD and whether it is a single-, or dual-signature PD, shall use the applicable I Hold, I Hold-2P, T MPS and T MPDO values as defined in Table 33-17." Proposed Response Response Status <b>O</b> CI 33 SC 33.3.4 P 131 L 1 # 250 Comment Type or Pather Status <b>X</b> A PD is either a single-, or a dual-signature device. The determination of single/dual impacts nearly every requirement. Yether PD section offers zero guidance or requirements on what a PD needs to meet to be guaranteed to be correctly identified by connection check. SuggestedRemedy Adopt yseboodt_03_0516_pdsig.pdf Proposed Response Response Response Status <b>O</b>	Comment Type TR	Comment Status X			То	o avoid over	lap, the two	shall statements need	d to be made mo	ore narrow.		
Hold max, T MPS and T MPDO values as defined in Table 33-17."         Needs to mention I_Hold-2P.         SuggestedRemedy         "A PSE, depending on the connected Type of PD and whether it is a single-; or dual-signature PD, shall use the applicable I Hold, I Hold-2P, T MPS and T MPDO values as defined in Table 33-17."         Proposed Response       Response Status         O         Cl 33       SC 33.3.4       P 131       L 1       # [250]         Comment Type       TR       Comment Status X         A PD is either a single-; or a dual-signature device. The determination of single/dual impacts nearly every requirement. Yet the PD section offers zero guidance or requirements on what a PD needs to meet to be guaranteed to be correctly identified by connection check.         SuggestedRemedy       Adopt yseboodt_03_0516_pdsig.pdf	"A PSE, depending of	on the connected Type of PD, s	shall use the app	licable I Hold min, I	Suggeste	dRemedy						
Needs to mention L_Hold-2P.         SuggestedRemedy         "A PSE, depending on the connected Type of PD and whether it is a single-, or dual-signature PD, shall use the applicable I Hold, I Hold-2P, T MPS and T MPDO values as defined in Table 33-17."         Proposed Response       Response Status       O         C/ 33       SC 33.3.4       P 131       L 1       # 250         Yseboodt, Lennart       Philips         Comment Type       TR       Comment Status       X         A PD is either a single-, or a dual-signature device. The determination of single/dual impacts nearly every requirement. Yet the PD section offers zero guidance or requirements on what a PD needs to meet to be guaranteed to be correctly identified by connection check.         SuggestedRemedy       Adopt yseboodt_03_0516_pdsig.pdf         Proposed Response       Response Status       O	Hold max, T MPS an	d I MPDO values as defined in	n Table 33-17."		The 'c	or' in the firs	two shall st	atements for "A Type	3 or Type 4 PSE	E, when connected to a		
SuggestedRemedy         "A PSE, depending on the connected Type of PD and whether it is a single-, or dual-signature PD, shall use the applicable I Hold, I Hold-2P, T MPS and T MPDO values as defined in Table 33-17."         Proposed Response       Response Status       O         CI 33       SC 33.3.4       P 131       L 1       # [250]         Vseboodt, Lennart       Philips         Comment Type       TR       Comment Status       X         A PD is either a single-, or a dual-signature device. The determination of single/dual impacts nearly every requirement. Yet the PD section offers zero guidance or requirements on what a PD needs to meet to be guaranteed to be correctly identified by connection check.         SuggestedRemedy Adopt yseboodt_03_0516_pdsig.pdf       Adopt yseboodt_03_0516_pdsig.pdf       Proposed Response       Response Status       O	Needs to mention	n I_Hold-2P.			single	-signature F	D" needs to to "and" on r	become and 'and':				
"A PSE, depending on the connected Type of PD and whether it is a single-, or dual-signature PD, shall use the applicable I Hold, I Hold-2P, T MPS and T MPDO values as defined in Table 33-17." Proposed Response Response Status O Cl 33 SC 33.3.4 P 131 L 1 # [250] Comment Type TR Comment Status X A PD is either a single-, or a dual-signature device. The determination of single/dual impacts nearly every requirement. Yet the PD section offers zero guidance or requirements on what a PD needs to meet to be guaranteed to be correctly identified by connection check. SuggestedRemedy Adopt yseboodt_03_0516_pdsig.pdf Proposed Response Response Response Status O	SuggestedRemedy				- (	change "or"	to "and" on p	bage 118, line 49				
Proposed Response       Response Status       O       C/ 33       SC 33.3.4       P 131       L 1       # 250         Yseboodt, Lennart       Philips         Comment Type       TR       Comment Status       X         A PD is either a single-, or a dual-signature device. The determination of single/dual impacts nearly every requirement. Yet the PD section offers zero guidance or requirements on what a PD needs to meet to be guaranteed to be correctly identified by connection check.         SuggestedRemedy       Adopt yseboodt_03_0516_pdsig.pdf         Proposed Response       Response Status       O	"A PSE, depending o signature PD, shall u defined in Table 33-1	on the connected Type of PD a use the applicable I Hold, I Hold I7."	nd whether it is a I-2P , T MPS and	a single-, or dual- d T MPDO values as	Proposed	Response	Res	ponse Status <b>O</b>				
Yseboodt, Lennart       Philips         Comment Type       TR       Comment Status X         A PD is either a single-, or a dual-signature device. The determination of single/dual impacts nearly every requirement.       Yet the PD section offers zero guidance or requirements on what a PD needs to meet to be guaranteed to be correctly identified by connection check.         SuggestedRemedy       Adopt yseboodt_03_0516_pdsig.pdf         Proposed Response       Response Status       O	Proposed Response	Response Status 0			CI 33	SC 33.3	3.4	P 131	L1	# 250		
Comment Type       TR       Comment Status       X         A PD is either a single-, or a dual-signature device. The determination of single/dual impacts nearly every requirement. Yet the PD section offers zero guidance or requirements on what a PD needs to meet to be guaranteed to be correctly identified by connection check.         SuggestedRemedy Adopt yseboodt_03_0516_pdsig.pdf         Proposed Response       Response Status         O					Yseboodt,	Lennart		Philips				
A PD is either a single-, or a dual-signature device. The determination of single/dual impacts nearly every requirement. Yet the PD section offers zero guidance or requirements on what a PD needs to meet to be guaranteed to be correctly identified by connection check. SuggestedRemedy Adopt yseboodt_03_0516_pdsig.pdf Proposed Response Response Status <b>O</b>					Comment	Type TI	R Coi	nment Status X				
SuggestedRemedy Adopt yseboodt_03_0516_pdsig.pdf Proposed Response Response Status <b>O</b>						A PD is either a single-, or a dual-signature device. The determination of single/dual impacts nearly every requirement. Yet the PD section offers zero guidance or requirements on what a PD needs to meet to be guaranteed to be correctly identified by connection check.						
Adopt yseboodt_03_0516_pdsig.pdf Proposed Response Response Status O					Suggeste	dRemedy						
Proposed Response Response Status O					Adopt yseboodt_03_0516_pdsig.pdf							
					Proposed	Response	Res	oonse Status <b>O</b>				

C/ 33 SC 33.3.4	P 131	L <b>9</b>	# 251	C/ 33 SC	33.4.2	P 151	L <b>26</b>	# 253				
rseboodi, Lennan	Philips			r Seboodi, Lenna	hart	Philips						
Comment Type TR	Comment Status X			Comment Type	TR	Comment Status X						
"A Type 2 PD preser Figure 33-32."	nts a non-valid detection signa	ture when in a i	mark event state per	"The PSE PI shall withstand without damage the application of short circuits of any wire to any other wire within the cable for an indefinite period of time. The magnitude of the currer								
SuggestedRemedy				through sucl	h a short c	ircuit shall not exceed I LIM n	nax as defined ir	n Table 33-17."				
Change to:	r Turna 4 DD "			No longer correct for the new Types.								
	A Type 2, Type 3 of Type 4 PD					SuggestedRemedy						
Cl 33 SC 33.3.8 Yseboodt, Lennart	P 149 Philips	L 29	# 252	Replace second sentence by: "The magnitude of the current through such a short circuit: - shall not exceed I LIM-2P max, as defined in Table 33-17, for Type 1 and Type 2 PSEs - shall not exceed 0.85A for Type 3 PSEs - shall not exceed I_LPS for Type 4 PSEs"								
Comment Type TR	Comment Status X			Proposed Respo	onse	Response Status O						
"NOTEPDs may no the maximum allowe resistance RCh). Su meet the Maintain Pr	CI 33 SC Yseboodt, Lenna	<b>33B</b> art	P <b>232</b> Philips	L <b>34</b>	# 254							
We also n	eed to mention IPort-MPS-2P	for dual-signatu	ure PDs.	Comment Type TR Comment Status X								
SuggestedRemedy				"I Con_2P_u	IND MAX Ar	nd Equation (33-13) are species $1 \odot 125 \odot$ and worst case	ified for total cha	nnel common mode				
	the shists we sat the ID set MI		C OD an a sifila ation in	pair resistance from 0.1 0 to 12.5 0 and worst case unbalance contribution by a PD.								

"NOTE--PDs may not be able to meet the IPort\_MPS or Iport\_MPS-2P specification in Table 33-29 during the maximum allowed port voltage droop (VPort\_PSE max to VPort\_PSE min with series resistance RCh). Such a PD should increase its IPort min or make other such provisions to meet the Maintain Power Signature."

Proposed Response Response Status **O** 

ICon-2P-unb is a minimum. SuggestedRemedy

"I Con-2P-unb and Equation (33-13) are specified for total channel common mode pair resistance from 0.1 O to 12.5 O and worst case unbalance contribution by a PD."

Proposed Response Response Status **O**