C/ 00 SC 0 P L # 1 Anslow, Pete Ciena	C/ 30 SC 30.12.2.1.18a P 37 L 22 # 3				
Comment Type ER Comment Status A Editorial	Comment Type E Comment Status A Manageme				
In general, for amended clauses, only the text of subclauses that are being changed are included. Understanding that for Clause 33, the Task Force has decided to replace the whole Clause, this does not apply to other amended clauses.	Adding 30.12.2.1.18a, 30.12.2.1.18b, 30.12.2.1.18c, 30.12.2.1.18d means that Table 30-7 should be modified with new rows. Similarly for 30.12.3.1.18a, 30.12.3.1.18b, 30.12.3.1.18c, 30.12.3.1.18d SuggestedRemedy				
SuggestedRemedy	Show additions to Table 30-7 for new subclauses.				
In preperation for a request to proceed Working Group Ballot, go through the entire draft and for all amended clauses (except Clause 33) and remove all subclauses that are not being changed. For Clause 25 this involves:	Response Response Status C ACCEPT.				
Leave heading for 25.4 but remove text Remove heading and content for 25.4.1 through 25.4.4	Where is Table 30-7. I don't see it in our draft.				
Change editing instruction to: "Change text of 25.4.5 as follows:" (we do not use the term "section")					
Remove heading and content for 25.4.5.1 through 25.4.6 Below heading for 25.4.7 add editing instruction: "Change text of 25.4.7 as follows:"	Lennart to follow up				
Remove heading and content for 25.4.5.1 through to the ned of the clause.	Cl 33 SC 33.2.8 P 102 L 32 # 4				
Response Response Status C	Beia, Christian STMicroelectronics				
ACCEPT IN PRINCIPLE.	Comment Type ER Comment Status A PSE Pow				
Editor to follow suggested remedy, but I believe some of the sections are there because we believe changes will be made to them or that they are necessary for review. Any	Table 33-17, Item6 Icon-2P-unb is relevant to SS PD only.				
unchanged subsection to be removed before D2.0.	SuggestedRemedy				
C/00 SC 0 P L # 2	Add "Single Signature PD" on each line of Item6, column Parameter, before the Class.				
Anslow, Pete Ciena	Response Response Status C				
	ACCEPT IN PRINCIPLE.				
Comment Type ER Comment Status A Editorial Not all changes in the draft have an associated editing instruction	Change parameter description for Item 6 from "Pairset current including unbalance effect"				
SuggestedRemedy Go through the draft making sure that all changes have an associated editing instruction. This includes at least 33A.5, Annex 33B, Annex 33C, Annex 33D, Annex 33E	to "Pairset current including unblance effect when powering single-signature PDs"				
Response Response Status C ACCEPT.					

5/ 33 S	C 33.4.1.1.2	P 151	L 11	# 5		C/ 33	SC 3	33.2.8.7	P 111	L 14	# 6
eia, Christian		STMicroelect	ronics			Beia, Chris	tian		STMicroelect	ronics	
omment Type	e TR	Comment Status A			AES	Comment	Туре	TR	Comment Status A		Pres: Ysebood
operation h	nave to switch	detect DS PDs with a comm the more negative conduc b, but not for Environment B	tor at least. This				0	sentence, ted to a si	ngle-signature PD, a Type 3	or Type 4 PSE	should (TBD) remove
uggestedRem	nedv							oth pairset	s before the current exceed	s the "PSE uppe	rbound template" on
	•	ragraph of 33.4.1.1.2 the fo	llowing sentence	e:		either	pairset.				
An Environ	mont P DSE	that supports 4-pair power	aball awitab tha	more possive		has se	verel we	eak points	:		
		e to switch both conductors		more negative		- the (1	(BD) to	be remov	ed		
esponse		Response Status C				- the "s	should"	makes no	body happy: those who wa		
ACCEPT.						failure working on single pairset would ignore a reccomendation, and those who w power to be removed from both pairsets don't have the assurance it will be imple					
TFTD, FS	D. FS								s for power removal can inc		
1110,10						The ma	ain doal	l here sho	uld be avoiding that a PD th	at failed to work	over 4-pairs, when
						powere	ed on 2-	pairs wou	Id exceed the current origination		
						potenti	ally ove	erstressing	the magnetics.		
						of thes	econd p	pairset is b	ould allow the PSE to discon below one-half of the assign ow in that pairset). It ensure	ed power (i.e. the	e current that was
									damage occurred.		
						See al	so Dars	han_05			
						Suggested	Remed	y			
						Replac					
							from bo		ngle-signature PD, a Type 3 s before the current exceed		
						With:					
						from o	ne pairs	set and ma	ngle-signature PD, a Type 3 aintain power on the other p assigned Pclass (0.5*Pclass	airset only if the	may remove power PD power consumptior
						Response			Response Status C	,	
						•	PT IN P	RINCIPLE	•		
						Remov	/e TBD.	No other	changes.		

CI 33 SC Beia, Christian	33.2.8.2	P 106 STMicroelectro	L 12	# 7	C/ 33 Bennett, K		3.3.7.3	P 142 Sifos Technolo	L 2	# 8
	TD		011103		<i>.</i>		-		gies, in	
	TR on of comm	Comment Status A nent 324 of Draft1.6 was only	partially implem	PSE Power nented, and some text	<i>Comment</i> Figure		E an Inrus	Comment Status A sh section figure, but it appears	s within the P	<i>Editoria</i> peak_PD section
is missing.					Suggested	Remedy	,			
					Place	the figure	e within t	the Inrush section		
SuggestedReme	edy				Response			Response Status C		
Replace :					ACCE	PT IN PF	RINCIPL	E.		
	to operate	capacitance CPort min or CF for input voltage transients w						n't room on the previous page ure is properly placed in Frame		moved it to the next.
-	unan 50 µ3.				CI 33	SC 3	3.2.1	P 47	L 10	# 9
With:					Bennett, K	en		Sifos Technolo	gies, In	
	The minimum PD input capacitance CPort min or CPort-2P min defined in Table 33-28, allows PDs of any Type to operate for input voltage transients which cause VPD to drop as low as 0V lasting less than 30µs as specified in 33.3.7.6.				Comment	Туре	ER	Comment Status A		PSE Types
					Table 33-2, 3rd column header states "Range of maximum Classes supported". The entries in the column are not ranges; they only show the maximum.					
Response		Response Status C			SuggestedRemedy Change the column heading to: "Maximum Class Supported."					
ACCEPT IN	-									
The "of any	Type" is no	t needed.			Response			Response Status C		
Replace :					ACCE	PT IN PF	RINCIPL	E.		
		capacitance Cport min or Cp for input voltage transients w			OBE b	oy 137				
lasting less		ion input voltage transiente tr			We wanted to make sure that you could build a PSE that was not listed in that table such					
With:					as a T	ype 3, cla	ass 3 PS	SE for example		
	to operate f	t capacitance Cport min or C or input voltage transients, w as specified in 33.3.7.6.								

Cl 33 SC 33.3	3.7.4	P 142	L 27	# 10	C/ 33	SC 33.3.7.2.1	P 140	L 36	# 11
Bennett, Ken		Sifos Technol	ogies, în		Bennett, Ken		Sifos Techno	iogies, In	
Comment Type EF	२ (Comment Status A		PD Power	Comment Ty	pe TR	Comment Status A		Pres: Darshan14
		IS current in this section.					only existed in 33.3.7.2.1. I rerage power in Table 33-28		port_PD_2P are now
The symbol "Iport" is now used extensively in the standard in ways that are not consistent with an RMS Current definition. (Including instantaneous values, limits, time-limited, etc.) The RMS Current definition should be apparent in the symbol to distinguish it from other instances of Iport.					conflict v (fixed) V with pow Section 3	vith the average port_PD_2P va er variations in 33.3.7.2.1 also	port_PD and Pport_PD_2P v power variables in the PCIa lue which is incorrect; The F the PD (due to channel resi doesn't seem to make sens	ass_PD specifica PD input Voltage istance).	ation. They use a static changes dynamically
					Average	Power, and is	entitled:		
SuggestedRemedy In section 33.3.7.4	4,				"System	Stability Test 0	Conditions During Start-up a	nd Steady State.	"
Change Inort to b							rt_PD and Pport_PD_2P "sh		
0 1 1		and change Iportmax to I	ponkiviSmax			no test conditi (.at) standard.	on mentioned. Pport_PD isn	n't even used any	where else in the
Response ACCEPT.	R	esponse Status C			Childing	.ut) standard.			
ACCEPT.						33.3.7.2.1 shou power in table	Id be deleted. Alternatively, 33-28.	different symbol	s should be used for
					SuggestedRe	emedy			
					OR	ection 33.3.7.2.	1. Pport_PD_2P in table 33-28	to Pova PD on	d Pova PD 2P
					-	Ppon_PD and		to Pavg_PD and	u Pavg_PD_2P.
					Response ACCEPT		Response Status C E.		
					TFTD				
					adopt da	rshan_14_051	5.pdf		
					Does this	s affect anythin	g I am not seeing?		

<i>Cl</i> 33 <i>SC</i> 33.3.7.4 Bennett, Ken	P 142 L 22 Sifos Technologies, In	# 12	C/ 33 SC 33.3.7.10 P 147 L 26 # 13 Bennett, Ken Sifos Technologies, In					
limit in equation 33-26 i inconsistent with Ppeak the Ppeak_PD requiren Existing text: "Ripple current content ALLOWED" if the total the PSE PI for Class 6 SuggestedRemedy Insert the quoted text a Ripple current content allowed if "Ppeak_PD r	(IPort_ac) superimposed on the DC curring input power is less than or equal to PCla and Class 8 PDs."	d voltage, which is IS current still must meet rent level (IPort_dc) "IS ss_PD max, or PClass at ent level (IPort_dc) is power is less than or equal	requirements must within the ranges in Rsource and Vport The requirements f compliant ranges of long channels, and SuggestedRemedy See bennett_1_05 Response ACCEPT IN PRINO Adopt bennett_1_0 1. remove the last	raphs are ambiguous. It's not clear whether the be met for a single set of RSource and Vport_I nentioned, or if ICon_2P_unb, ICon_2P must be _PSE_2P ranges. for ICon apply to the full Rsource and Vport ran of PSE and Channel characteristics. (PDs can f at any length for extended power.) 16.pdf <i>Response Status</i> C CIPLE. 1516.pdf with the following changes to both para	PSE values that fall e met over the full ges, which correspond to fail Icon_unb at short or agraphs:			

C/ 33 S Darshan, Yair	C 33.2.5.12	P 89 Microsemi	L 48	# 14	<i>Cl</i> 33 Darshan, Ya	SC 33.2.7.2	P 99 Microsemi	L 50	# 16
	nt 202 from D.	Comment Status A 16 regarding overload.		PSE SD	Comment T Table 3		Comment Status A nd 7 use the same number (6)	l.	Editorial
"As of right those case This should	t now, we hav s?" d be converte	nment editor wrote: e multiple optional behaviors d to editor note to be addres o increase PSE design flexib	sed by the grou		Response	mber Table 33	Response Status C		
SuggestedRem	nedy				ACCEP	T IN PRINCIP	LE.		
		Note at the end of the SM c nultiple optional behaviors in		we want to handle	OBE by	209			
those case			The SD, now u		CI 33	SC 33.2.8.4	P 106	L 28	# 17
Response		Response Status C			Darshan, Ya	ir	Microsemi		
ACCEPT II	N PRINCIPLE				Comment T	/pe ER	Comment Status A		Editorial
Optional be	ehaviors to go	into SD.			Comme	nt #196 from [D1.6 was not implemented cor	rrectly	
No change	to text from a	accepting this comment.					P-other are the currents on the ed in Equation (33–5) **in and		
CI 33 S	C 33.2.5.10	P 73	L 44	# 15	SuggestedF	emedy			
Darshan, Yair <i>Comment Type</i>	e ER	Microsemi Comment Status A		Pres: Darshan11		P and IPort-2P	P-other are the currents on the ed in Equation (33–5) and in E		
	k to Table 33-	7 in the following text:			Response		Response Status C	,	
"tcc_timer A timer use	ed to monitor	the duration of Connection (Check."		ACCEP	Т.			
SuggestedRem	nedv								
Change fro "tcc_timer	om:	the duration of Connection (Phook "						
A unier use			JHECK.						
To: "tcc_timer A timer use	ed to monitor	the duration of Connection (Check. See Tab	le 33–7."					
Response ACCEPT II	N PRINCIPLE	Response Status C							
OBE by 10	7.								
-									

TFTD

nment Type ER Comment Status A PD SD	
Title of figure 33-33 need to be 33-2	Comment Type ER Comment Status A Pres: Darshan1 The Editor Note is not required anymore. All the necessary parameters were defined.
gestedRemedy Change fig number to 33-2	SuggestedRemedy Delete Editor Note.
ponse Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT IN PRINCIPLE.
TFTD, YD	Delete editor's note and section 33.4.9.2
Change figure number to "33-32" as its "continued"	C/ 33 SC Annex B P 232 L 28 # 21 Darshan, Yair Microsemi
Replace "The PD shall provide the behavior of the state diagram shown in Figure 33-32." With: "Type 1 and Type 2 PDs shall provide the behavior of the state diagram shown in Figure 33-31. Single-signature Type 3 and Type 4 PDs shall provide the behavior of the state diagram shown in Figure 33-32. Dual-signature Type 3 and Type 4 PDs shall provide the behavior of the state diagram shown in Figure 33-33.	Comment Type T Comment Status A Annex 33 In the text: "Verification of ICon-2P_unb in step 6 and 7 confirms PSE RPSE_max and RPSE_min are in conformance to this specification." A
Change all figure numbering after 33-32 to match.	replace "PSE" with "that" SuggestedRemedy
33 SC P L # 19 shan, Yair Microsemi	Change to: "Verification of ICon-2P_unb in step 6 and 7 confirms that RPSE_max and RPSE_min are in conformance to this specification."
Imment Type ER Comment Status D Editorial For the next draft, it is preferred to show the new editorial marks (insertions and deletions) in addition to the changing bars. It helps to see the changes without the need to compare two documents. Editorial	Response Response Status C ACCEPT.
gestedRemedy For next Drafts: show the new editorial marks (insertions and deletions) in addition to the	C/ 33 SC 33.2.8 P 105 L 44 # 22 Darshan, Yair Microsemi
changing bars.	Comment Type T Comment Status A Editoria Delete Editor Note #3. It was adressed in D1.7.
posed Response Response Status Z REJECT.	Suggested Remedy
This comment was WITHDRAWN by the commenter.	Delete Editor Note #3. It was addressed in D1.7.
We are replacing the whole clause, so the editing marks do not get shown.	Response Response Status C ACCEPT.
I believe what you are asking for would create a bunch of work for our editor.	
is believe what you are asking for would breate a barren of work for our cattor.	

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

Cl 33 SC 33.2.8 Darshan, Yair	P 105 Microsemi	L 32	# 23	C/ 33 S Darshan, Yair	C 33.2.8.7	P 111 Microsemi	L 14	# 25			
Comment Type T	Comment Status A		Editorial	Comment Type		Comment Status R		Pres: Darshan			
Delete Editor Note #1. It SuggestedRemedy Delete Editor Note #1. Response ACCEPT.	was addressed in D1.7. Response Status C			"[**Part-1* current ex Figure 33- [**Part-2* (TBD) rem	*] Power sha ceeds the "P 14b. ⁽] When con	ee darshan_05_0516.pdf for c ill be removed from a pairset l 'SE upperbound template" in l nected to a single signature P rom both pairsets before the c rset."	PI of a PSE bef Figure 33-14, F D, a Type 3 or	igure 33-14a, and Type 4 PSE should			
C/ 33 SC 33.3.7.6 Darshan, Yair	P 145 Microsemi	L 30	# 24	Due to the fact that for single-signature PD: a)Each pairset is already protected by [**part-1**].							
Comment Type T Per comment #193 in D1 "a)" should be deleted in "a) A Type 1 PD input cu	Comment Status A .6 according to approved re	D upperbound to	emplate (see Figure 33-	c)Forcing designed t We don't r pairset app was not de	he PSE to s o work at low need [**Part- proaches the esigned to ha pairset and	rset doesn't add extra protecti thut off both pairset in case of wer power in case of fault whe 2**] due to the fact that in sing a upper bound template, this p andle lower power mode, the v it will be disconnected as well	fault, kills PD a n 4-pairs is req gle-signature PI airset will be po whole current w	uired for full power. D if current over a owered off, if the PD ill flow through the			
33–38) after TLIM min (se	rrent shall not exceed the P ee Table 33–17 for a Type the next paragraph starting	1 PSE) when the	e following"		nnected to a	single signature PD, a Type 3					
Response	Response Status C			power from	h both pairse	ets before the current exceeds	the "PSE uppe	erbound template"			
ACCEPT IN PRINCIPLE.				Option 2: To address solution proposed by Chritian to be discussed by the group. The solution may be described in darshan_05_0516.pdf if we get a consensus on th wording of it prior the meeting.							
	e guide (are a's allowed if n	o b is present?).		Response REJECT.		Response Status C					
TFTD, LY	TFTD, LY			vote to add	opt option 1	of suggested remedy:					
				Yes: 8 No: 11							

Cl 33 Darshan, Ya		33.2.10.1.	2 P1 Micro		L 22	# 26	C/ 33 Darshan, Y		33.2.5.12		⊃98 crosemi	L 4	# 27
Comment Ty		TR	Comment Status			Pres: Darshan10	Comment		TR	Comment Stat			Pres: Darshans
False dia need to We need for a dt o cycle of	be ad d to al of 0.8r MPS-	ect or fals rressed. llow PSE s ms to 20m FTMPDO f	e maintain power as system to decide wh	a result at to do i distored o	in this case whe		We ne When PD cla to supp power. For this	ed to Type iss 5 c ply the s purp	address the 3 PSE with or above and e correct nu	e following use ca available power of d we need to repo mber of fingers (1	se (as an of Type 1 c ort to the h in case o	or Type 2 connectors ost what is the a f 15.4W) to indic	cted to single signature ictual PD class and yet cate the available PSE
SuggestedRemedy Add the following text to the end of section 33.2.10.1.2: Option 1: Type 3 and Type 4 PSE when supporting short MPS may fail to detect presence or absence of a short MPS pulse as a result of PSE dv/dt that may cancel or distorted or add MPS pulse. Type 3 and Type 4 PSE when supporting short MPS during PSE dv/dt for PSE voltage change dv of up to 2V and time duration dt of 0.8msec to 10msec for a sliding time window of 3 sec (TBD) may maintain the power or disconnect the power when presence or absence of short MPS pulse is not possible under the above conditions. Option 2: A PSE may ignore the current MPS status of a short MPS pulse once every 3 seconds, which permits PSEs to deal with seldom occurring transients that may distort the MPS signal.					cel or distorted or add ring PSE dv/dt for PSE msec for a sliding time wer when presence or ons. e every 3 seconds,	 For this purpose we need to allow class reset after 3 class event and issuing one class event. SuggestedRemedy To add the following text at page 98 line 4: "Type 3 and Type 4 PSEs may issue up to 3 class events to determine PD Class. Type 3 and Type 4 PSEs incapable of supporting PD Class may issue a class reset events to clear the class and mark event counts and may issue the lowest number of class event that is corresponding to the PSE available power." No need to update PSE SM since it is optional feature similar to the text that "PSE can detect and not power" or PSE can use Type 4 class 7 current settings when operating Type 3 class 6 PDs or may other examples in the current spec including IEEE802.3-201 					sue a class reset event number of class events the text that "PSE can gs when operating		
Proposed R	espon	se	Response Status	z			Response			Response Stati	ıs C		
REJECT	Т.						ACCEI	PT IN	PRINCIPLE	Ξ.			
This cor	mmen	t was WIT	HDRAWN by the co	ommente	r.		OBE b	y 106					
TFTD							TFTD.						
ignore th often. T matter o	he MP Fo let t of time	S status a he PSE ig	nd say that there want of a missed MPS mething is unplugge	as a 1nV Spulse ev	transient. Option	seems to make it just a	"Type : Class. class e	d the fo 3 and Type events	Type 4 PSI 3 and Type may issue	4 PSEs incapab a class reset eve	to 3 class le of suppo nt to clear	orting the assign the class and m	nine the PD's requested ed Class due to those ark event count and he PSE available power."

PSF Inrush

C/ 33	SC 33.2.8.5	P 109	L 20	# 28
Darshan, Y	air	Microsemi		

Comment Type TR Comment Status A

In the following text, it is not clear when the PSE is following the template:

"The PSE shall limit IInrush-2P and IInrush during POWER_UP per the requirements of Table 33-17. The maximum inrush current sourced by the PSE per pairset shall not exceed the per pairset inrush template in Figure 33-26 and Equation (33-13)."

in Figure 33-26 and Equation (33-13) some PD implementations start to show linrush only after significant time (10-30msec) after the application of Vpd but still within Tinrus_min time duration but the template in figure 33-26 looks that it is relevant to iinrush appearance at t=0 only.

SuggestedRemedy

Change from:

"The PSE shall limit IInrush-2P and IInrush during POWER_UP per the requirements of Table 33-17. The maximum inrush current sourced by the PSE per pairset shall not exceed the per pairset inrush template in Figure 33-26 and Equation (33-13)."

to:

"The PSE shall limit IInrush-2P and IInrush during POWER_UP **state** per the requirements of Table 33-17. The maximum inrush current sourced by the PSE per pairset shall not exceed the per pairset inrush template in Figure 33-26 and Equation (33-13) **for the duration of POWER_UP state**."

Response

se Response Status C

ACCEPT IN PRINCIPLE.

Adopt darshan_18_0516.pdf

TFTD

Yair, Lennart, and Pete to work on text.

I am not sure how the suggested text makes your concern any clearer in the text.

Change to:

"The PSE shall limit linrush-2P and linrush during POWER_UP per the requirements of Table 33-17. The maximum inrush current sourced by the PSE per pairset shall not exceed the per pairset inrush template in Figure 33-26 and Equation (33-13) for the duration of POWER_UP."

C/ 33	SC 33.2.8	P 102	L 49	# 29
Darshan, Ya	iir	Microsem	ni	

Comment Type TR Comment Status A

1. Table 33-17 item 7 approved baseline additional information column was implemented incorrectly.

2. Some adjustment to linrush for dual-signature PD class 0-4 is required to address worst case operating conditions when PD using constant power sink that operates at minimum Von. Same applies to Table 33-28.

3. Some adjustments are required to clause 33.2.8.5.1 due to (2) + fixing PD type error.

SuggestedRemedy

Comment Type

See darshan_01_0516.pdf for proposed remedy.

Response Status	С
	Response Status

ACCEPT IN PRINCIPLE.

Adopt darshan_01_0516Rev6.pdf

TR

C/ 33	SC 33.3.7.3	P 141	L 16	# 30
Darshan, Ya	ir	Microsemi		

Pres: Darshan2

Pres: Darshan1

Addressing comments # 179 and others related to this clause as elaborated below from D1.6:

The following proposed modifications are addressing the following questions:

Comment Status A

1.Does PDs that are internally limiting their inrush current are required to end Inrush period within TInrush-2P min per Table 33-17?

2.How we prevent that PD internal load during linrush period is less than Inrush current setting value to ensure successful POWER_UP?

3.Adding a note that explains why the PD PI current is not equal to the DC load current during POWER UP.

4.Adding text that addresses the new 110uF value for dual-signature class 1-4.

SuggestedRemedy

See darshan_02_0516.pdf for proposed remedy.

Response Response Status C

ACCEPT IN PRINCIPLE.

adopt darshan_02_0516Rev004.pdf

C/ 33 SC 33.3.7.6 P 145 L 25 # 31 C/ 33 SC 33.2.6 P 90 L5# 33 Darshan, Yair Darshan, Yair Microsemi Microsemi Comment Type TR Comment Status A Pres: Darshan3 Comment Type TR Comment Status D PSF Detection We need to address the fact that we change dual-signature class 1-4 PD capacitance In the following text: value from 180uF to 110uF "Also, a PSE may successfully detect a PD but then opt not to power the detected PD." SuggestedRemedy The following case is not covered: See proposed remedy in darshan 03 0516.pdf PSE may successfully detect and classify a PD but then opt not to power the detected PD. Response Response Status C To add text that PSE may detect and not continue and go to IDLE or detect and classify ACCEPT IN PRINCIPLE. and not go to POWER UP or detect and classify and POWER UP and not continue to POWER ON. adopt darshan 03 0516.pdf To find the location with the existing text and update it. SuggestedRemedy TFTD Change to: C/ 33 P 99 L1 # 32 SC 33.2.7.2 "Also, a PSE may successfully detect and classify a PD but then opt not to power the detected PD." Darshan, Yair Microsemi Proposed Response Response Status Z Comment Type **TR** Comment Status A PSF Class REJECT. The following requirement is not described by the state machine. "If any measured IClass is equal to or greater than IClass LIM min, a Type 2, Type 3 or This comment was WITHDRAWN by the commenter. 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 I believe that what you are asking for is already included (it detected a PD, but did not IMark LIM." power it). Changing legacy text should be avoided it possible. I do not see any value to SuggestedRemedy the new text and if anything it can used to say that you must classify after a detection (which is not true). Add the following Editor Notes: "Editor Note: To address existing "shall" requirements that are not covered in the state TFTD. YD 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)." Response Response Status C ACCEPT IN PRINCIPLE. Obe by Partial OBE by 130. I don't think we need to add editor's notes. Type 1/2 SD is not changing. Type 3/4 can be covered in text just like Type 1/2. TFTD

<i>CI</i> 33 Darshan, `	SC 33. Yair	2.7.2	P 99 Microsemi	L 9	# 34	C/ 33 Darshan, Y	SC 33 . ′air	.2.8	P 105 Microsemi	L 36	# 36
Comment	Type T	२ Cor	nment Status D		PSE Class	Comment	Туре т	ſR	Comment Status D		Pres: Darshan
POWE	ER_ON states in the CLA	e without all SS_RESET	PRI or CLASS_RESI	e PI or pairset t	o go below VMark min,	under Due to	unbalance lake of tir	e condit me, this	n is important for the integr ion. subject was not resolved y e group how to continue wi	et.	,
Missin	g POWER	_UP state as	well.			Suggested	IRemedv				
Suggested	dRemedy					00		0516.	odf for discussion details ar	nd possible reme	dv
POWE	SE shall c R_UP and	PÓWER_O		ig the voltage at	n and transition to the the PI or pairset to go	Proposed I REJEC	,	_	Response Status Z		
	Response		ponse Status Z		SET_SEC States.	This co	omment w	as WIT	HDRAWN by the comment	er.	
REJE	CT.	,				Vote to	o adopt da	rshan_	4_0516.pdf:		
	ement is all	eady there.	N, that means we wen	t through POWE	-κ_UP. So the	Abstair TFTD				1.45	# 07
Cl 33	SC 33.	2.8	P 103	L 30	# 35	C/ 33 Darshan, Y	SC 33 . ′air	.2.8.4	P 107 Microsemi	L 45	# 37
Darshan, `			Microsemi			Comment	Туре Т	R	Comment Status A		PSE Powe
The fo	33-17 item oot note 2 th	12 class 4 ro	nment Status A ow, min value 0.684. hed to the 0.684A for	Type 3 and 4 wa	PSE Power	Equati	on 33-10 i	must us	definitions: Rchan and Rcha e the Rchan-2P, so it is no and Rchan-2P is specific pe	t required to use	Rchan/2 while Rchan is
this ite						Suggested	Remedy				
Add th	ge "0.684A" ne following	to "0.684^2' text after Ta	ble 33-17:			2. Cha	nge "RCh	an is th	/2" to "Rchan-2P" in Equati e channel DC loop resistan annel DC loop resistance a	ce as defined in	33.1.3"
			ot restricted. The ILIM- s operating with 4-pair		er than the value for	Response			Response Status C		
Response			oonse Status C	5.		ACCEI	PT.				
ACCE		, 100									
TFTD											

	P 130	L3	# 38	CI 33 SI	C 33.2.6.1	P 90	L 52	# 40
Darshan, Yair	Microsemi	L 3	# 30	Darshan, Yair	5 33.2.0.1	Microsemi	L 32	# 40
Comment Type TR To add dual sig PD stat	<i>Comment Status</i> A e machine.		Pres: Darshan6	Comment Type In the text: "If the volta		Comment Status A	ax (defined in ⁻	Connection Chec
	gnature state machine in dar	shan_06_0516	.pdf	connection max (define	check, the d in Table :	PSE shall reset the PD by brin 33–17) for at least le 33–15) before performing o	nging the volta	
Response ACCEPT IN PRINCIPLI	Response Status C E.			We need to for noise.	define the	time in which we consider the	e voltage is abo	ve Vvalid to be imuuned
Adopt darshan_06_051	6.pdf			SuggestedRem	edy			
adopt darshan_07_0510 adopt darshan_08_0510	5.pdf			than TBD n	nsec** durir	pairset rises above Vvalid m g connection check, the PSE	shall reset the	PD by bringing the
Cl 33 SC 33.2.7.1 Darshan, Yair	P 97 Microsemi	L 38	# 39			Voff max (defined in Table 3	3–17) for at lea	ist TReset (defined in
to the IDLE state or class state." Is not covered by the st There are probably other shall's. Do we have rule that the I believe we don't. We co simplicity and readabilit SuggestedRemedy Add the following Editor "Editor Note: To addres	er requirements that are not c at force us to describe shall in an decide according to the c y. Note: s in the state machine the ca	overed by the s overed by the s ost effectivenes se of what show	return to the IDLE state machine and have as of it in regards to SM uld Type 1 do if the		s to the draf	Response Status C .E. t result from this comment. C after CC. This is allowed by		ring this is for the PSE
measured IClass is with Proposed Response	in the range of IClass_LIM of Response Status Z	r use text only (preffered)."					
REJECT.	Nesponse sidius L							
This comment was WIT	HDRAWN by the commenter	r.						
request. I don't believe	e Type 1/2 State Diagram un we should do this anyway. V SD, we shouldn't have to inclu	Ve don't have t	hese requirements					
TFTD, YD, DS								

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

Cl 33 Darshan, Ya	SC 33.2.6.1 air	P 90 Microsemi	L 40	# 41	Cl 33 Johnson,		33.2.5.9	P 68 Sifos Techno	L 10 blogies	# 43
Comment T Table 3	<i>ype</i> TR 3-7 item 3 and 1	Comment Status A the note below.		Pres: Darshan11		efinition		Comment Status A 2P-pri and Iport-2P-sec eac	0	<i>PSE SD</i> e 33.2.8.6), but there is
mated M start to The req	MDI exists Tcc r		quires Tcc_min=	200msec min from	Suggester Remo Response	dRemed ove the r	ly eferences	iables in 33.2.8.6. to 33.2.8.6 <i>Response Status</i> C		
SuggestedF		-			ACCE	EPT IN F	PRINCIPLE	Ξ.		
00		gment is connected to an MI)I. not all contac	is are made	Chan	ae 33.2.	8.6 to 33.2	2.8.4		
simultar	neously. Theref	ore, a minimum total time (T	cc_min) is requir	ed to complete		-				
		includes the time required for	full mated MDI	and the time required	TFTD	, YD				
•		ion check function."								
Response	T IN PRINCIPL	Response Status C								
ACCEP		.с.								
TFTD										
OBE by	/ 107.									
C/ 33 Darshan, Ya	SC 33.3.3.10 air	P 129 Microsemi	L 8	# 42						
Technic to simpl	clear that the s cally there is no lify future PD ch	Comment Status D tate machine permits Tdelay need for it since Type 1 curr ip designs we need to allow load current consumption by	ent always < PS same behavior f							
SuggestedF See dar		.pdf for proposed remedy.								
Proposed R REJEC	•	Response Status Z								
This co	mment was WI	THDRAWN by the commenter	er.							
WFP										
TFTD										
		d for this because the Tpowe e 1 PDs already do…	rdly timer is mea	ant to make all PDs act						
	achaical require	d FR/editorial required GR	apporal required	T/tachnical E/aditarial C/	nonoral			Comm	nent ID 43	Page 14 of 67

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 33.2.8.4.1 P 109 L 1 # 44	Cl 33 SC 33.2.8.6 P 110 L 48 # 45						
Johnson, Peter Sifos Technologies	Johnson, Peter Sifos Technologies						
Comment Type T Comment Status A Unbalance	Comment Type T Comment Status A Pres: Ysebo						
Rpse_max is defined as "the maximum PSE common mode effective resistance" and Rpse_min is defined as "the minimum PSE common mode effective resistance". This is slightly confusing and may infer that there are some maximum and minimum	Iport-2P is defined in two places, 33.2.8.4 and then again in 33.2.8.6. It should have on one definition, and given the present structure of the standard, that definition needs to b universal to all PSE types and powering modes. Both 33.2.8.4 and 33.2.8.6 infer a relationship between Iport-2P and Type 3/4 PSEs.						
absolute values in some table somewhere.	Suggestion is to broaden the Iport-2P definition in 33.2.8.4 - that is covered in a separat						
SuggestedRemedy	comment. Then move the Iport definition to 33.2.8.4 along side of the Iport-2P definition						
Change to:	SuggestedRemedy						
Rpse_min is the lowest possible effective resistance in the powered pairs of the same polarity.	Modify 33.2.8.4: Add first sentence: "IPort is the total current supplied by the PSE to the PI."						
For a given Rpse_min,							
Rpse_max is the highest possible effecive resistance in the powered pairs of the same polarity. Response Response Status C ACCEPT IN PRINCIPLE. C	Modify 33.2.8.6: Revise: "If IPort, the current supplied by the PSE to the PI, exceeds ICUT-2P for" to "If IPort exceeds ICUT-2P for"						
Adopt darshan_16_0516.pdf	Desires						
TFTD.	Revise: "If IPort-2P, the current supplied on a pairset by the PSE to the PI, exceeds ICUT-2P for longer" to						
Yair and Pete to discuss.	"If IPort-2P exceeds ICUT-2P for longer"						
I don't think you can format it like that as the two parameters are inside a "where" that descirbes equation 33-13.	Modify Iport definition in 33.2.5.4:						
I also don't understand what we are really trying to say here.	Revise: "IPort Output current (see 33.2.8.6)."						
Are we really trying to say that RPSE_min is the lower of the common mode effective	to "IPort Output current (see 33.2.8.4)."						
resistance of the powered pairs of the same polarity? And RPSE_max is the maximum allowed common mode effective resistance in the powered pairs of the same polarity for a given RPSE_min?	Response Response Status C ACCEPT IN PRINCIPLE.						
	OBE by 247						

C/ 33 SC 33.2.8.7 P 112 L 12 # 46 C/ 33 SC 33.2.8.7 P 114 L 16 # 49 Johnson, Peter Sifos Technologies Johnson, Peter Sifos Technologies Comment Type Т Comment Status A PSF Power Comment Type **TR** Comment Status A PSF Power Figures 33-28 and 33-29 include an ILIM parameter on the right vertical axis. But there is The list of variables beneath Equations 33-18, 33-19, 33-20 includes the term Icon-2P but no ILIM definition any more. it is 'Icon-2P min' that is used in the equations. Presumably, these should be removed. The definition for Icon-2P is okay. SuggestedRemedy SuggestedRemedy Remove ILIM from Figures 33-28 and 33-29. Replace Icon-2P with 'Icon-2P min'. Response Response Status C Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE. Adopt darshan_17_0516.pdf Replace Icon-2P min in equations with Icon-2P C/ 33 P 112 L 48 # 47 TFTD. LY SC 33.2.8.7 Johnson. Peter Sifos Technologies Comment Type E Comment Status A Editorial References to equations are all off by one. SuggestedRemedy Replace with: "...described by Equation (33-15), Equation (33-16), Equation (33-17)..." Response Response Status C ACCEPT. C/ 33 SC 33.2.8.7 P 113 L 31 # 48 Johnson, Peter Sifos Technologies Comment Type Comment Status A Editorial Е The list of variables beneath Equations 33-15, 33-16, and 33-17 include 3 terms not used in those equations: PType max, VPSE, and Iport-2P-other. SuggestedRemedy

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

Remove these terms.

Response Response Status C

ACCEPT.

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

mment TypeTComment StatusAPres: Yseboodt2This comment may be OBE by presentation.One area where 33.2.8.4 is written for 4-Pair (Type 3/4) PSE's only: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 used as vertical axis to current templates including those applicable to Type 1/2 PSEs.	Comment Type T Comment Status A Pres: Yseboodt This comment may be OBE by presentation. This comment may be OBE by presentation. File Status File Equation 33-7 defines Icon-2P = Pclass / Vpse when in 2-pair mode. Table 33-17 (item 5) defines Icon = Pclass / Vport-PSE-2P. If we assume Vpse (defined in 1.4) is the really the comment this are by loar to PCF 0P. File Status File Status Status
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	Equation 33-7 defines Icon-2P = Pclass / Vpse when in 2-pair mode. Table 33-17 (item 5) defines Icon = Pclass / Vport-PSE-2P. If we assume Vpse (defined in 1.4) is the really the
diagram. These terms have no meaning for 2-Pair powering cases. Iport-2P is then later	defines Icon = Pclass / Vport-PSE-2P. If we assume Vpse (defined in 1.4) is the really the
lport 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.	same thing as Vport-PSE-2P (defined in Table 3-17), then Icon-2P is really the same as Icon. Also, Pclass and Pclass-2P are really defined in EQ 33-2 and EQ 33-3 respectively, not Tables 33-11 and 33-12.
ggestedRemedy	
One remedy is to add a specificity to Iport-2P definition:	SuggestedRemedy
	Change Equation 33-7 to:
lport-2P = lport for Type 1 and Type 2 PSE's	Icon-2P
= Iport-2P-pri for the Primary Alternative of Type 3 and Type 4 PSEs	= Icon when in 2-pair mode
= Iport-2P-sec for the Secondary Alternative of Type 3 and Type 4 PSEs	= min() when 4-pair powering a single signature PD = Pclass-2P / Vpse when 4-pair powering a dual signature PD
lport-2P-other	
= Iport-2P-sec for the Primary Alternative of Type 3 and Type 4 PSEs	where
= Iport-2P-pri for the Secondary Alternative of Type 3 and Type 4 PSEs	Pclass is defined in Equation 33-2 Pclass-2P is defined in Equation 33-3
sponse Response Status C	
ACCEPT IN PRINCIPLE.	Response Response Status C
OBE by 247	ACCEPT IN PRINCIPLE.
	OBE by 247

This comment may be OBE by presentation. 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: This comment may be OBE by presentation. "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" "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 with the operating voltage range of VPort_PSE-2P: SuggestedRemedy Replace this text. IPeak, IPeak-2P-unb, and IPeak-2P minimum for TCUT-2P minimum and 5 % duty cycle minimum, where" (New Paragraph) SuggestedRemedy	Cl 33 SC 33.2.8. Johnson, Peter	4 P 107 Sifos Techno	L 7 logies	# 52	C/ 33 Johnson,	SC 33.2.8.4 Peter		07 Technolog	L 12 ies	# 53			
 "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" 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 Icon-2P values greater than Icon-2P-unb. Icon is the total current of both pairs with the same polarity" Response Response Status C ACCEPT IN PRINCIPLE. OBE by 247 "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 with the operating voltage range of VPort_PSE-2P: IPeak, IPeak-2P-unb, and IPeak-2P minimum for TCUT-2P minimum and 5 % duty cyclinimium, where" SuggestedRemedy "In addition to ICon, ICon-2P and ICon-2P-unb as poelfied in Table 33-17 and Equation (33-7), the PSE shall support the following AC current waveform parameters, while with the operating voltage range of VPort_PSE-2P: IPeak, IPeak-2P-unb, and IPeak-2P minimum for TCUT-2P minimum and 5 % duty cyclinimium, where" SuggestedRemedy This section needs some work. It probably should be re-written to individually address three fundamental cases: a. ACCEPT IN PRINCIPLE. OBE by 247 (DE b	51			Pres: Yseboodt2		51				Pres: Yseboodt2			
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" 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 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" Response Response Response Status C ACCEPT IN PRINCIPLE. OBE by 247 OBE by 247 Replace the point of the same polarity and the same polarity" (New Paragraph) (New Parag	Another area where	33.2.8.4 is written for 4-Pair (T	ype 3/4) PSE's o	only:	Another area where 33.2.8.4 is written for 4-Pair (Type 3/4) PSE's only:								
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" Response Response Status C ACCEPT IN PRINCIPLE. OBE by 247 OBE by 247 0.4-Pair Powering Single Signature PD(where Ipeak-2P-unb applies): Define Ipeak-2P, Ipeak-2P_using (Rchan) in quadratic 3) 4-Pair Powering Dual Signature PD Define Ipeak-2P using (Rchan) and (PPeak_PD-2P) in the quadratic 3) 4-Pair Powering Dual Signature PD Define Ipeak-2P using (Rchan) and (PPeak_PD-2P) in the quadratic Response Response Status C	total current of both	pairs with the same polarity tha	t a PSE support	s. Icon-2P_unb is the	(33–7), the PSE shall	support the following	AC current					
(i)	00					·	and IPeak-2P minimu	Im for TCU	T-2P minimur	m and 5 % duty cycle			
Response Response Status C Only need to define Ipeak-2P using (Rchan) in quadratic ACCEPT IN PRINCIPLE. 2) 4-Pair Powering Single Signature PD(where Ipeak-2P-unb applies): Define Ipeak, Ipeak-2P, Ipeak-2P, unb using (Rchan/2) in the quadratic OBE by 247 3) 4-Pair Powering Dual Signature PD Define Ipeak-2P using (Rchan) and (PPeak_PD-2P) in the quadratic Response Response Status C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE.	"When a Type 3 or " Icon-2P values grea same polarity that a	"When a Type 3 or Type 4 PSE is powering 4 pairs, that 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					This section needs some work. It probably should be re-written to individually address the three fundamental cases:						
OBE by 247 Define Ipeak, Ipeak-2P, Ipeak-2P_unb using (Rchan/2) in the quadratic 3) 4-Pair Powering Dual Signature PD Define Ipeak-2P using (Rchan) and (PPeak_PD-2P) in the quadratic <i>Response Response Status</i> C ACCEPT IN PRINCIPLE. ACCEPT IN PRINCIPLE.													
3) 4-Pair Powering Dual Signature PD Define Ipeak-2P using (Rchan) and (PPeak_PD-2P) in the quadratic Response Response Status C ACCEPT IN PRINCIPLE.		PLE.											
ACCEPT IN PRINCIPLE.	00L by 241	OBE by 247											
OBE by 247								С					
					OBE	by 247							

33	SC 3:	3.2.8.4	P 107	L 33	# 54	C/ 33	SC 33	3.2.10.1.	.2	P 118	L 30	# 55
ohnson, F	Peter		Sifos Teo	chnologies		Johnson, Pe	ter			Sifos Techno	logies	
Comment	Туре	т	Comment Status A		Pres: Yseboodt2	Comment Ty	/pe	т	Comment S	Status A		PSE MPS
		-	DBE by presentation.	b: FQ 33-9 and I	-O 33-11	3). The	rules fo	or Type 3			pe 3 PSE that p en for 4-Pair pov	owers 2-pair (Class 1- wering of single
		•	. –			Signatur		idal olgri				
		bes IPea d PD load		of Ipeak that is in	turn a function of PSE	SuggestedR Revise:	emedy					
of PSE	E port vol	tage or P	D load - it is a fixed val	ue greater than IL	ILIM-2P is not a function IM-2P_min. Also, my as a figure well higher than	"A Type "A PSE						
		,	or Class 6. hat II IM-2P, min must b	be higher than wh:	at is in Table 33-17 ??????				SE, when conn gle signature F		gle-signature PE ::"):" to
13 LQ	00 11 110	alcating ti		ingrier than whe		Revise:		0	5 - 5			
	Domodu					"А Туре			SE, when conn al signature PD		al-signature PD:	' to
Suggested		to do here				Response			Response S	Status C		
NOL SU	ire what t		÷.			ACCEP	Γ IN PR	RINCIPL	.E.			
			ninate EQ 33-11. Howe to better capture that.	ever, if it is adding	information relevant to	TFTD, D	S					
Response			Response Status C				que rule	es per pa	airset). Also, I			ets (DS PDs have their sted to make it easier to
		RINCIPLE	•			Revise:						
			 6.pdf #2 under proposed	d remedy.		"А Туре			PSE:" to over a single	pairset:"		
Renan	ne result	of equati	on 33-11 lpeak-2p_unb	o_max.		Revise: "A Type	3 or Tv	ne 4 PS	SE when conn	ected to a sin	gle-signature PE):" to
TFTD											re PD over both	
									SE, when conn SE powering a		al-signature PD:'	' to

C/ 33 SC 33.3.7.4 P 141 L 49 # 56 Johnson, Peter Sifos Technologies 56	C/ 33 SC 33.3.7.4 P 142 L 35 # 57 Johnson, Peter Sifos Technologies 57
Comment Type T Comment Status A Pres: John This commment is a recommendation to separate concepts of extended power to class and class 8 PDs and associated requirements to meet *PSE* output power rather than *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 PD are not subject to Pclass_PD and Ppeak_PD limits. 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. SuggestedRemedy Create new sub-sections 33.7.2.1 and 33.3.7.4.1. Re-locate Class 6 / Class 8 extended power text, formulas, and current templates into those respective sections. I will separately provide a document (baseline text) showing what this would look like in johnson_01_0516_Extended_Pwr_baseline_v1.docx. Response Response Status C	Image: Definition of the maximum like the set of the maximum like the set of th
ACCEPT IN PRINCIPLE. adopt johnson_01_0516_Extended_Pwr_baseline_v1.pdf with the following exceptions:	resistance, over the operating VPort_PD-2P range" Response Response Status C ACCEPT IN PRINCIPLE.
do not strike note below Figure 33-38. Duplicate this note (with necessary changes) ur Figure 33-40.	

IEEE P802.3bt D1.7 4-Pair Power-over-Ethernet 10th	Task Force review comments
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	SC 33.3.7.4	P 143	L 6	# 58		33.2.7.2	P 99	L 28	# 60		
Johnson, Peter	r	Sifos Technolo	ogies		Lukacs, Miklos		Silicon Labs				
Comment Type	e ER	Comment Status A		PD Power	Comment Type	т	Comment Status A		Pres: Lukacs		
The final se	entence in th	is section is *really* hard to c	omprehend:				ng the multiple event classific e intent more clear.	ation would help	p in understanding the		
Layer class		ay be used to calculate PPeal I for Autoclass by substituting spectively."			SuggestedRemedy See timing diagrams presentation (Lukacs)						
SuggestedRem	nedv				Response		Response Status C				
Make it eas	sier to under	stand:			ACCEPT IN	I PRINCIPL	E.				
		ay be used to calculate PPeak			OBE by 64.						
		s_PD-2P respectively, or from n, or from PAutoclass_PD utili			C/ 33 SC	33.2.5.11	P 75	L 50	# 61		
Response		Response Status C			Lukacs, Miklos		Silicon Labs				
	N PRINCIPL				Comment Type	Е	Comment Status A		PSE SD		
Layer class	sification by s	ay be used to calculate Ppeal substituting Pclass_PD with P PD with Pautoclass_PD."					and the text is not precise en Frue when a class signature if		otherwise it is set		
by substitu											
	SC 33.2.7.1	P 97	L 40	# 59	SuggestedRem	edy					
		P 97 Silicon Labs	L 40	# 59	pd autoclas	s is set to T	rue when a class signature of				
CI 33 S		•••	L 40	# 59 Pres: Lukacs	pd autoclas	s is set to T earlier than	TACS min and no later than				
C/ 33 S Lukacs, Miklos Comment Type A timing dia	e T agram show	Silicon Labs		Pres: Lukacs	pd autoclas window (no 33–27), oth <i>Response</i>	s is set to T earlier than erwise it is s	TACS min and no later than bet to False. <i>Response Status</i> C				
C/ 33 S Lukacs, Miklos Comment Type A timing dia	e T agram showi ould make th	Silicon Labs Comment Status A ing the single event classificat		Pres: Lukacs	pd autoclas window (no 33–27), oth	s is set to T earlier than erwise it is s	TACS min and no later than bet to False. <i>Response Status</i> C				
CI 33 S Lukacs, Miklos Comment Type A timing dia text and wo	e T agram showi ould make th nedy	Silicon Labs Comment Status A ing the single event classificat		Pres: Lukacs	pd autoclas window (no 33–27), oth <i>Response</i> ACCEPT IN pd autoclas	s is set to T earlier than erwise it is s I PRINCIPL s is set to T	TACS min and no later than bet to False. <i>Response Status</i> C E. rue when a class signature of	TACS max, as o	defined in Table		
CI 33 S Lukacs, Miklos Comment Type A timing dia text and wo	e T agram showi ould make th nedy	Silicon Labs Comment Status A ing the single event classificat e intent more clear.		Pres: Lukacs	pd autoclas window (no 33–27), oth <i>Response</i> ACCEPT IN pd autoclas	s is set to T earlier than erwise it is s I PRINCIPL s is set to T	TACS min and no later than bet to False. <i>Response Status</i> C E.	TACS max, as o	defined in Table		
Cl 33 S Lukacs, Miklos Comment Type A timing dia text and wo SuggestedRem See timing Response	e T agram showi ould make th nedy	Silicon Labs Comment Status A ing the single event classificat e intent more clear. esentation (Lukacs) Response Status C		Pres: Lukacs	pd autoclas window (no 33–27), oth <i>Response</i> ACCEPT IN pd autoclas window (see	s is set to T earlier than erwise it is s I PRINCIPL s is set to T e Table 33–	TACS min and no later than bet to False. <i>Response Status</i> C E. rue when a class signature of	TACS max, as o f '0' is detected o e.	defined in Table		
Cl 33 S Lukacs, Miklos Comment Type A timing dia text and wo SuggestedRem See timing Response	P T agram showi ould make th nedy i diagrams pr N PRINCIPL	Silicon Labs Comment Status A ing the single event classificat e intent more clear. esentation (Lukacs) Response Status C		Pres: Lukacs	pd autoclas window (no 33–27), oth <i>Response</i> ACCEPT IN pd autoclas window (see	s is set to T earlier than erwise it is s I PRINCIPL s is set to T e Table 33–	TACS min and no later than set to False. <i>Response Status</i> C E. rue when a class signature of 27), otherwise it is set to Fals	TACS max, as o f '0' is detected o e.	defined in Table		

Lukacs, Miklos	.5.11.	P 76 Silicon Labs	L 2	# 62	<i>CI</i> 33 Lukacs, Mi	SC 33.2.5. klos	8 P 65 Silicon Labs	L 40	# 65
Comment Type E	Comme	ent Status A		Pres: Yseboodt8	Comment	Туре Е	Comment Status A		PSE SD
mr pd autoclass i TACS window.	efers to the sig	nature seen during t	he first (long) cla	ass event, before the		int named "par DET_SEQ" is A	rameter_type" is written in small ALL CAPS	caps, while the	other constant
SuggestedRemedy					Suggested	Remedy			
The PD classifica first class event.	tion signature s	een before TACS m	in during the lon	g		hould be writte METER_TYPE	en similarly, and preferably ALL	CAPS:	
Response	Respon	se Status C			Response		Response Status C		
ACCEPT IN PRI	ICIPLE.				ACCE	PT IN PRINCI	PLE.		
Editor to fix missi	ng "_" in all varia	able names in the de	o_autclassificatio	on function.	OBE b	y 219			
C/ 33 SC 33.2	.5.11	P 76	L 10	# 63	CI 33	SC 33.2.1	P 47	L 10	# 66
Lukacs, Miklos		Silicon Labs			Lukacs, Mi	klos	Silicon Labs		
Comment Type E	Comme	ent Status A		Pres: Lukacs	Comment	Туре Е	Comment Status R		PSE Types
A timing diagram the text and woul			itoclass would h	elp in understanding		column heade n the documer	r of table 33-2: the meaning of "-	Short MPS supp	port" is not clear at this
SuggestedRemedy					Suggested	Remedy			
See timing diagra	ms presentatior	n (Lukacs)				note under tab			
Response	Respon	se Status C			Note 1 more c		6ms, see table 33-17 line 23, cl	ause 33.3.5.2 a	ind table 33-29 for
ACCEPT IN PRI	ICIPLE.				Response		Response Status C		
OBE by 64.					REJEC	CT.			
C/ 33 SC 33.2	.5.8	P 65	L 39	# 64	I believ	ve we removed	d a note pointing to theses section	ons from this he	ader last time. None
Lukacs, Miklos		Silicon Labs					headers have notes, and they one allowed Types, the reader nee		
Comment Type E	Comme	ent Status A		Pres: Lukacs	,	summary of tr stand it.	le allowed Types, the reader her		
	•		uences would h	elp in understanding					
SuggestedRemedy									
See timing diagra	ms presentatior	n (Lukacs)							
Response	Respon	se Status C							
	ICIPLE.								
ACCEPT IN PRI									
	0516_timings_l	baseline_rev5.pdf w	th the following	change:					

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 Lukacs, Miklos	C 33.2.5	P 47 Silicon Labs	L 10	# 67	C/ 33 S Picard, Jean	SC 33.2.5.9	P 66 Texas Instrum	L 46	# 69
Comment Type	Е	Comment Status A		PSE Types	Comment Typ	e TR	Comment Status A		PSE SL
51	It is hard to understand the column header of column 3 "Range of maximum classes supported."					_4PID_mult_	events_sec variable is missin	ng from the list o	of variables although it
					SuggestedRei	medy			
SuggestedReme Change it ba	2	imum Class Supported"			Add the fo	llowing varial	ble from "Picard_03_0316.pd	f" page 1:	
	7 to make sur	re that you could build a PSE	that was not lit	ted in that table such	A variable determine TRUE: the 4-pair pow FALSE: th	if the dual si PSE genera /er.	he PSE generates 3 class ev gnature PD is a candidate for tes at least 3 class events to not need to generate 3 class	4-pair power. determine if th	e PD is a candidate for
as a Type 3	s, class 3 PS	E for example			Response		Response Status C		
C/ 33 SC	C 33.3.7.3	P 141	L 8	# 68	ACCEPT.				
Picard, Jean		Texas Instrume	ents		TFTD, YD	DS .			
Comment Type	TR	Comment Status A		PD Inrush		, 00			
	ection need	s to be cleaned up to remove earer.	contradicting s	entences and make	Cl 33 S Picard, Jean	SC 33.2.5.9	P 66 Texas Instrum	L 39 nents	# 70
ine spec sil					Comment Typ	e ER	Comment Status A		PSE SE
	eay				oonintent typ	e ek			102.02
SuggestedRem	•	S_pdinrush.pdf			51		the PSE generates 3 class e	vents to "	102.02
SuggestedReme See yseboo	•	S_pdinrush.pdf <i>Response Status</i> C			"A variable	e indicating if			
SuggestedRem	odt_10_0516	Response Status C			"A variable	e indicating if out primary al	the PSE generates 3 class e		
SuggestedReme See yseboo Response	odt_10_0516	Response Status C E.			"A variable this is abo SuggestedRee Replace w	e indicating if but primary alt <i>medy</i> <i>v</i> ith:	the PSE generates 3 class e	ed.	

C/ 33 SC 33.2.5.12 Picard, Jean	P 79 Texas Instrum	L 35 nents	# 71	C/ 33 SC 33. Picard, Jean	.2.5.12	Р 81 Texas Instru	L 9 ments	# 73	
Comment Type TR The IF(CC_DET_SEQ 7 previous Draft. SuggestedRemedy	Comment Status D ⁴ 2) statement is missing, se ET_SEQ ≠ 2) statement. Re	eems to have be		Comment Type E A parenthesis is SuggestedRemedy Replace with this IF (mr_pse_alter	missing and a s mative = both)	nment Status A another is at the wror * ((mr_pse_ss_mod	ng location.	Pres: Yseboodt11	
Proposed Response REJECT.	Response Status Z			Response ACCEPT IN PRI	Resp	_pwr > 4))) THEN oonse Status C			
	HDRAWN by the commente serted in Picard_02 Repla		at was there rather than	OBE by 110 TFTD, LY					
TFTD, YD, LY Jean and Chris to discu	ss and follow up			Cl 33 SC 33. Picard, Jean	.2.5.12	P 81 Texas Instru	L 18 ments	# 74	
SuggestedRemedy Replace 2nd line with ((both_neither) * (sig_sec	,	≠ valid. Also "no		A parenthesis is SuggestedRemedy Insert a parenthe Response ACCEPT.	missing esis between I <i>Resp</i>	nment Status A F and "dll_4PID" nonse Status C f open and close par	renthesis currently	PSE SE	
Response ACCEPT IN PRINCIPLI OBE by 177, 178	Response Status C E.			TFTD, LY <i>CI</i> 33 SC 33 Picard, Jean	.2.5.12	P 89 Texas Instru	L 23	# 75	
			Comment Type T Figure 33-22 onl SuggestedRemedy	Comment Type TR Comment Status A Figure 33-22 only shows the case of SS PD					
				Response ACCEPT IN PRI	Resp INCIPLE.	oonse Status C		or state diagram for	

C/ 33 SC 33.2.5.12 Picard, Jean	P 89 Texas Instrum	L 23 ents	# 76	C/ 33 SC 33.2.5.12 Picard, Jean	P 87 Texas Instrumer	L 40 nts	# 79		
Comment Type TR PSE MPS monitor Stat	Comment Status A e Diagram for DS PD is missi	ing	Pres: Yseboodt7	Comment Type ER CLASS_EV1_LCE_PRI	Comment Status A itle is already used somewher	re else	PSE SD		
Response ACCEPT IN PRINCIPL	6_dsmps.pdf presentation <i>Response Status</i> C E. 16_dsmps.pdf presentation w	vith the exceptic	on of the shall	SuggestedRemedy Replace with this CLASS_EV1_LCE_RES Response ACCEPT IN PRINCIPLE OBE by 118.	ET_PRI. Refer to Picard_02_(<i>Response Status</i> C	0316.pdf page 10			
C/ 33 SC 33.2.5.12 Picard, Jean	P 89 Texas Instrum	L 21 ents	# 77	C/ 33 SC 33.2.5.12 Picard, Jean	P 88 Texas Instrumer	L 40 nts	# 80		
Comment Type ER "!" should NOT be there	Comment Status A e in the left column of Figure	33-22	PSE SD	Comment Type ER Comment Status A PSE S CLASS_EV1_LCE_SEC title is already used somewhere else S S S					
SuggestedRemedy Remove the "!" symbol Response ACCEPT. TFTD, DS	to read "mr_mps_valid_sum' Response Status C			Response ACCEPT IN PRINCIPLE	ET_SEC. Refer to Picard_02_ <i>Response Status</i> C	_0316.pdf page 10	1		
C/ 33 SC 33.2.5.12 Picard, Jean	P 89 Texas Instrum	L 14 ents	# 78	OBE by 121.					
Comment Type ER missing parentheses	Comment Status A		PSE SD						
SuggestedRemedy Middle flowchart: (highe Right flowchart: (highes									
Response ACCEPT.	Response Status C								
TFTD, DS									

	C 33.2.8.5	<i>P</i> 109	L 16	# 81		SC 33.2.8.7	P 111 Texas Instrum	L 9	# 82	
Picard, Jean		Texas Instrur	nents		Picard, Jean	nents				
Comment Type	TR	Comment Status A		PSE Inrush	Comment Ty	pe TR	Comment Status D		PSE Power	
type 3 PSE "Type 3 and signature P starting with	is allowed d Type 4 PS D shall read the first pa g into the P	OWER_UP state. The secon	o channel. pairsets when c both pairsets w	connected to a single- vithin TInrush-2P max,	long as 4 class 4 o selected SuggestedRe	seconds over r lower. That l for this amour emedy Type 4 PSEs t	allowing a Type 4 PSE to app 2P when powering a SS PD evel of stress for so long can at of energy, for example the o apply the "Type 3 operating	with Class 6 o damage comp data transforme	r lower or DS PD with onents that are not ers of Mag Jacks.	
SuggestedRem	edv				This mas	na tha fallowi	a contonco.			
Replace wit	Replace with this:				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)					
		SEs that have assigned Class I state on both pairsets within			apply. "					
		to the POWER_UP state, wh			Proposed Re	,	Response Status Z			
POWER_U	P anytime	within this time period."			REJECT.					
Response		Response Status C			This comment was WITHDRAWN by the commenter.					
ACCEPT IN	N PRINCIPL	_E.								
Jean to che	eck SD for s	ame behavior.	<i>v</i> ior.			However, as we have dicussed before, the PD determines how much current is drawn. The PSE can't force 1.3A down the channel.				
TFTD					TFTD					
reach the P pairset tran	OWER_ON sitioning int	SEs that have assigned Class I state on both pairsets within to the POWER_UP state, and the within this time period."	n Tinrush-2P ma	ax, starting with the first						

C/ 33 SC	33.2.5	P 56	L 13	# 83	CI 33	SC	33.2.7	P 94	L 32	# 84
Schindler, Fred		Seen Simply	, Broadco		Schindler,	Fred		Seen Simply	v, Broadco	
Comment Type	TR (Comment Status A		Pres: Schindler1	Comment	Туре	TR	Comment Status A		PSE Clas
Variable parameter_type is used in legacy text to indicate the PSE type powering the system so that the electrical parameters (ILIM) may be set based on the PSE Type. The value of parameter_type is not a constant (p61, L53) and is determined by mutual identification of the PSE and PD. The function set_parameter_type is used to set the electrical values based on table values. New Types have these same parameters (ILIM) set based on class rather than Type. The Type 3 and 4 state diagrams (SDs) do not facilitate setting parameters based on class or Type. Comment D1.6 #278 turn the Type 3 and 4 parameter_type variable into a constant. The Type 3 and 4 SD do not use this name to perform a purpose.				after r under provid Suggestee Modify "The a	eading standin les deta d <i>Reme</i> e y existir assigne	mainly the g of the P ills on clas dy ng text, d Class is	to permit understanding of t e relevant PSE or PD subse SE classification section ad ssification event response ir the results of the PDs requ e PSE as shown in Table 33	ctions. To aid the d references to the terpretation.	e reader in he PD section that the number of class	
				cility to change electrical	with,					
use of param schindler_3b	neter_type in n pt_01_05_16.	or included in the Type a ew text. This comment			single	-signati	ure PDs a	the results of the PDs requ nd Table 33-25 for dual-sigr PSE as shown in Table 33	nature PDs, and t	he number of class
SuggestedReme	-				Response		2	Response Status C		
	40 to 45 on pag				ACCE	PT IN	PRINCIPL	.Е.		
Response ACCEPT.	R	esponse Status C	"The assigned Class is the result of the PD's requested Class and the number of class							
WFP					events	s produ	ced by the behavior.	e PSE as shown in Table 33	–11 and Table 33	3–12. See 33.3.5 for PD
TFTD					Chang	ge "PDs	s" to "PD's	5"		
Lennart to fo	ollow up.				TFTD	, FS, Y	C			
					Cl 33 Schindler,		33.3	P 103 Seen Simply	L 30 v, Broadco	# 85
						33-17,	,	Comment Status A was edited to address D1.6 s-4 row, Min. column is mis		PSE Powe owever, the footnote
						ne miss llance a	ing footno	ote, is not restricted. The ILIM-2	P value is higher	than the value for
					Response ACCE		PRINCIPL	Response Status C E.		
					OBE b	ov 35.				
						-				

C/ 33 SC 33.3.3.5 P 124 L 3 # 86 Schindler, Fred Seen Simply, Broadco Seen Simply, Broadco	C/ 33 SC 33.3.4 P 131 L 9 # 88 Schindler, Fred Seen Simply, Broadco
Comment Type TR Comment Status A Editorial The remedy to D1.6, comment 248 may not be completely implemented. I believe the request should apply to legacy state diagrams. SuggestedRemedy SuggestedRemedy Implement the accepted solution, "Replace all square brackets with parenthesis in state diagrams." Response Response Status C ACCEPT. TFTD TFTD TFTD TFTD TFTD	Comment Type TR Comment Status A PD Detection Existing sentence, "A Type 2 PD presents a non-valid detection signature when in a mark event state per Figure 33–32." should apply to all PDs that respond to multievent classfication. Note that the reference figure is incorrect and on reference is missing. SuggestedRemedy Replace the sentence with, "A Type 2, 3 and 4 PDs presents a non-valid detection signature when in a mark event state per Figure 33–31and Figure 33-33." Response Response Response Status C ACCEPT IN PRINCIPLE. A
We have decided to leave the existing Type 1/2 state machine alone (except for maintenance requests). Does this include formatting? C/ 33 SC 33.2.3.8 P 127 L 38 # 87 Schindler, Fred Seen Simply, Broadco	OBE by 251 Cl 33 SC 33.3.4 P 132 L 3 # 89 Schindler, Fred Seen Simply, Broadco Editorial Comment Type TR Comment Status D Editorial
Comment TypeTRComment StatusAPD SDExisting sentence, "tpowerdly_timer A timer used to prevent Type 2 and Type 3 PDs from drawing more than Type 1 power and Type 4 PDs from drawing more than Class 2 power during the PSE's inrush period; see Tdelay-2P in Table 33–28." Incorrectly covers Type 2 PDs in the Type 3 and 4 section. Type 2 PDs are covered by legacy text on p123.	Tables 33-21 and 33-22 do not use the same style as other tables. SuggestedRemedy Recommend Table 33-26 be used as a guide to add missing columns, Item, and Symbol. Column Unit should also be relocated to match style. Provide editor with license to fill in other columns. Thank the Editor for exception this. This is related to comment marked COMMENT-1. Proposed Response Response Status Z
SuggestedRemedy Replace the sentence with,"tpowerdly_timer A timer used to prevent Type 3 PDs from drawing more than Type 1 power and Type 4 PDs from drawing more than Class 2 power during the PSE's inrush period; see Tdelay-2P in Table 33–28."	REJECT. This comment was WITHDRAWN by the commenter. Why is this a technical comment? If none of the parameters from these tables are referenced by name in the draft, why do
Response Response Status C ACCEPT. TFTD, DS	they need Item numbers and symbols?

C/ 33 SC 33.3.4 Schindler, Fred	P 132 Seen Simply,	L 12 Broadco	# 90	C/ 33 Schindler, Fre	SC 33.3.7.3 ed	P 141 Seen Simply,	L 35 Broadco	# 92		
Comment Type TR	Comment Status A		Editorial	Comment Typ	pe TR	Comment Status D		Editorial		
	of Table 33-21 so that Min and umbers within each cell.	l Max columns a	re wide enough to			ed was changed back to the solution human properties, liking see		e form. It is incorrect		
SuggestedRemedy				SuggestedRe	emedy					
See comment for the	e solution.			Existing t						
Response ACCEPT IN PRINCI OBE by 148	Response Status C IPLE.			POWER_ connecte during the	_ON states that d to a single-s e POWER_UF	the total PD input capacitar at a PSE sees as load when ignature PD. CPort-2P in Ta and POWER_ON states that onnected to a dual-signature	operating one or ble 33–28 is the l at a PSE sees as	both pairsets, when PD input capacitance		
C/ 33 SC 33.3.4 Schindler, Fred	P 132 Seen Simply,	L 5 Broadco	# 91	Corrected: A PSE is connected to CPort in Table 33–28 during POWER_UP and POWER_ON st						
Comment Type TR Related to a comme	Comment Status A ent marked COMMENT-1. Table	es 33-21 and 33	<i>Editorial</i> -22 use Rdetect as a	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.						
Symbol (indirectly) a	as a reference for different cond	itions.		Proposed Re	sponse	Response Status Z				
SuggestedRemedy				REJECT						
Replace the Rdetec	t in Table 33-22 with Rdetect_in	vlaid.		T b 10 0 000						
Response	Response Status C			I his com	ment was will	THDRAWN by the commenter	er.			
ACCEPT.				While fac Cport-2P		the new text doesn't actually	provide any clar	ity on what Cport and		
				TFTD, ne	ew text is welco	ome.				

Fred to follow up.

C/ 33		33.3.7.3	P 142	L 2	# 93	C/ 33		33.3.7.6	P 145	L 42	# 94		
Schindler,	, Fred		Seen Simply	, Broadco		Schindler,	Fred		Seen Simply,				
Suggeste Figure Response ACCE Edito No ch Again pairse	acorrect dReme e 33-27 e EPT IN r to che nanges n, while et vs se	dy text uses ' PRINCIPLI ck with IEE to draft at t factually co	Comment Status A at a thing has human prope 'PSE sees". Replace with, <i>Response Status</i> C E. E.	rties, liking see "PSE load capa of the word "se listinguish betw	citance is". es".	Comment Type TR Comment Status A Presentation, schindler_1_0915, provides an over view of this section and the 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 traces used associated Type with a class, and the PSE Type determinand TLIM limits that the PD need to remain below. New Types support legacy using different ILIM and TLIM values. It would be better to base operational re of ILIM and TLIM based on assigned PD class. However, since D1.2, when the requirements we first created, the values of ILI changed. Type-3 ILIM moved down from 817 mA to 702 mA. Type-4 moved of 1.162 A to 0.990 A. A rerun of the SPICE simulation for the Type-3 Extended 2,250V ramp shows the time to reach a point where the system current is below has increased from 3.5 ms to 8 ms, which is acceptable. A rerun of the SPICE for the Type-4 PD using a 2,250V ramp shows the time to reach a point use 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 of the SPICE simulation for the Type-4 Extended PD using a 2,250V ramp show							
	TFTD. Fred to follow up				Suggeste Repla page	value that exceeds significantly TLIM, which is NOT acceptable. <i>SuggestedRemedy</i> 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							
							"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. T 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 a on page 145 line 24 before the sentence that starts with "A dual-signature" with, "Ty single-signature PDs that consume more than class-8 PClass_PD, see 33.3.7.2, shal meet these requirements for the PD bulk capacitance utilized.						
						Delete	e the Eo	litor's note	at the start of this section.				
						Response			Response Status C				
						ACCE	EPT IN	PRINCIPLE	Ξ.				
						dual-s Pclas	signatur	e…" with, "	nce on page 145 line 24 befo Type-4 single-signature PD 2, shall meet these requirer	s that draw mor	e than class-8		

Cl 33 SC 33.3.7.6 Schindler, Fred	P 145 Seen Simply,	L 40 Broadco	# 95	<i>CI</i> 33 Schindler,	SC 33.6.3.3 Fred	P 172 Seen Simply	L 35 , Broadco	# 97
Comment Type T Related to a comment SuggestedRemedy	Comment Status D marked COMMENT-1.		Freddy		s notes use con ented on.	Comment Status A	hout reference to	<i>Editoria</i> o which draft was
Proposed Response REJECT. This comment was WI No Comment let alone	Response Status Z	r.		1.6 col <i>Response</i> ACCE	mment #48.	reference using style D1.6 #4 Response Status C	18, where this exa	ample references Draft
Cl 33 SC 33.4.2 Schindler, Fred	P 151 Seen Simply,	L 28 Broadco	# 96	Cl 33 Schindler,	SC 33.6.3.5	P 175 Seen Simply	L 9 , Broadco	# 98
The Fault tolerance se section conductor shor that they continue oper SuggestedRemedy	Comment Status A comments 272 remain unadd ction covers cases where a P ts. This section should contai ating after a link segment cor pefore the third paragraph of t	SE is subjected n similar require nductor open far	ements for new PDs so ult has been removed.	pse_dl 3 and - power Unforte 1. Brol	an Antonio 2014 I_power_type to 4 state diagram being provided. unately, this cha ke legacy DLL p	inge:	lded variable pse	_power_level for Type
	Ds shall withstand one or mor nage when powered by any F		en failures within the			0175 work together to provide e need access to variable that		es. To reported PSE
Response ACCEPT IN PRINCIPL TFTD Add:	Response Status C E.			Response	omment may be	covered in schindler_3bt_01 Response Status C LE.	_05_16.	
	e power from a PSE over few of one or more conductor ope		han specified when a	adopt	schindler_3bt_0	1_05_16.pdf		

C/ 33 SC 33.6.4.1 P 176 L 31 # 99 Schindler, Fred Seen Simply, Broadco	C/ 79 SC 79.3.2 P 203 L 27 # 101 Schindler, Fred Seen Simply, Broadco
Comment Type TR Comment Status A DLL	Comment Type TR Comment Status A Pres: Schindler2
It is incorrect to state that a thing has human properties, liking seeing.	Accepted draft 1.4 comments broke extended power operation using LLDP and DLL. An
SuggestedRemedy	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.
Existing text: If the PSE sees a change to the previously stored MirroredPDRequestedPowerValue, it	SuggestedRemedy
recognizes a request by the PD to change its power allocation.	A solution should appear in schindler_3bt_02_05_16 or other related presentation for this review cycle.
Corrected: If the PSE previously stored MirroredPDRequestedPowerValue changes, a request by the PD to change its power allocation is recognizes.	Response Response Status C ACCEPT IN PRINCIPLE.
Response Response Status C	OBE by 166.
ACCEPT IN PRINCIPLE.	WEP
If the PSE previously stored MirroredPDRequestedPowerValue changes, a request by the PD to change its power allocation is recognized.	TFTD
TFTD, DS	Cl 33 SC 33.2.5.9 P 66 L 39 # 102
C/ 33 SC 33.6.4.1 P 176 L 44 # 100	Stover, David Linear Technology
Schindler, Fred Seen Simply, Broadco	Comment Type E Comment Status A Editorial
Comment Type TR Comment Status A DLL	"dual-signature" is hyphenated and not capitalized, per our convention. There are 4 locations where this convention is not followed.
It is incorrect to state that a thing has human properties, liking seeing.	SuggestedRemedy
SuggestedRemedy	Global search and replace "dual signature" with "dual-signature".
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.	Response Response Status C ACCEPT.
Corrected: If the PD previously stored MirroredPSEAllocatedPowerValue is changed or local_system_change is asserted by the PD so as to change its power allocation, it enters the PD POWER REVIEW state.	
Response Response Status C	
ACCEPT IN PRINCIPLE.	
TFTD, DS	
If the PD previously stored MirroredPSEAllocatedPowerValue is changed or local_system_change is asserted by the PD so as to change its power allocation, the PD enters the PD POWER REVIEW state.	

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 33.2.5.9	P 67	L 44	# 103	C/ 33 S	C 33.2.5.9	P 70	L 25	# 105		
Stover, David	Linear Technol	ogy		Stover, David		Linear Techn	ology			
Comment Type T	Comment Status D		PSE SD	Comment Type	e TR	Comment Status A		PSE S		
The variable dll_4PID is	Definition of pd_cls_4PID_sec is inconsistent with assignment in PSE SD: "This variable									
SuggestedRemedy	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									
Remove dll_4PID. Rep										
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))				Replace variable definition as follows: "This variable indicates that a device on the secondary pairset classified as a Type 3 or Type 4 PD."						
Proposed Response	Response Status Z			Response		Response Status C				
REJECT.				ACCEPT I	N PRINCIPL	E.				
This comment was WI	THDRAWN by the commenter			TFTD						
TFTD, FS, YD				See 173						
C/ 33 SC 33.2.5.9					Replace variable definition as follows: "This variable indicates that a device on the secondary alternative classified as a Type 3 or Type 4 PD."					
Stover, David	Linear Technol	ogy		secondary			C 41 D.			
Comment Type TR Comment Status A PSE SD Definition of pd_cls_4PID_pri is inconsistent with assignment in PSE SD: "This variable indicates that 4PID has been established by confirming that both pairsets have a valid PSE SD				rename variable pd_cls_4Ptype_sec.						
					C 33.2.5.9	P 73	L 32	# 106		
detection signature and	I that a device classified as a	Type 3 or Type	4 PD."	Stover, David		Linear Techn	ology			
SuggestedRemedy Replace variable definition as follows: "This variable indicates that a device on the primary pairset classified as a Type 3 or Type 4 PD."			Comment Type	Pres: Darshan						
			"Shall" statement potentially in conflict with optional PSE behavior.							
Response	Response Status C			SuggestedRemedy						
ACCEPT IN PRINCIPL					Replace: "PSEs shall issue no more Class events than the Class they are capable of supporting."					
TFTD.				With: "Type 3 and Type 4 PSEs shall issue no more Class events than the Class they a capable of supporting unless a class reset event clears the PD class and mark event counts."						
See 144						Desmana Status				
Replace variable definition as follows: "This variable indicates that a device on the primary		device on the primary	Response		Response Status C					
	a Type 3 or Type 4 PD."	nuicales triat a	a device on the phinary		-					
Denome verieble	olo 4Dturo pri			Adopt dars	han_09_051	6Rev2.pdf				
Rename variable as po	_cis_4Ptype_pri.									

	0.70	1.40	#		00 00 0 5 4			11 100	
Cl 33 SC 33.2.5.10 Stover, David	P 73 Linear Techno	L 43 logy	# 107	CI 33 Stover, Dav	SC 33.2.5.12		L 9 Technology	# 109	
Comment Type T Comment Status A Pres: Darshan11 tcc_timer is defined but never used in PSE SD. I believe we intentionally removed this from SD in review of D1.6.					ype TR on logic in cont " simultaneous		-	PSE SL equired to follow arcs "A"	
Response ACCEPT IN PRINCIPLE	list of Type 3 and Type 4 tim <i>Response Status</i> C E. otion 2) in darshan_11_0516F			(sig_se With: "(e: "(mr_pse_alt c = valid)" mr_pse_alterna neither) * (sig_	ative != both) * (det_te	mp = only_one) * (si	temp = both_neither) * ig_pri = valid) + (det_temp	
Cl 33 SC 33.2.5.11 Stover, David Comment Type T	P 76 Linear Techno Comment Status A		# 108 PSE SD			THDRAWN by the cor	nmenter.		
	litional connection check resu ent has changed during do_c:		or example, that the	C/ 33 Stover, Dav	SC 33.2.5.1 2		L 8 Technology	# 110	
Add a result to sig_type: "Invalid: Neither open circuit, nor single-signature PD, nor dual-signature PD connection check signature has been found." Response Response Status C ACCEPT IN PRINCIPLE. TFTD.					Comment Type T Comment Status A Pres: Ysebood Conditional logic in SS state diagram (POWER_UP) may be simplified with no change to function.				
					SuggestedRemedy Replace: "IF (mr_pse_alternative = both) * (mr_pse_ss_mode = 1) + ((pd_req_pwr > 4) * (pse_avail_pwr > 4)) THEN" With: "If (mr_pse_alternative = both) * (mr_pse_ss_mode = 1) + (pd_req_pwr > 4) THEN"				
Change "open_circ" to "invalid" and definition to "Neither a single-singature PD nor a dual- signature PD connection check signature has been found. This includes an open circuit condition."			Response Response Status C ACCEPT IN PRINCIPLE. TFTD.						
			Change 4) THEI	· — I	e_alternative = both) *	(mr_pse_ss_mode	= 1) + (pd_allocated_pwr >		

33 SC 33.2.5.12	P 81	L 20	# 111	C/ 33	SC 33.2.5.12	P 83	3	L 32	# 113
tover, David	Linear Techr	nology		Stover, Da	avid	Linear	Technolog	ду	
Comment Type T Conditional logic in SS sta function. SuggestedRemedy Replace: "IF dll_4PID + ((1)) THEN" With: "IF dll_4PID + (pd_r Response ACCEPT IN PRINCIPLE. TFTD. Change to: "IF (dll_4PID -	pd_req_pwr > 4) * (pse_a eq_pwr > 4) + (mr_pse_s Response Status C	avail_pwr < 4)) + (ss_mode = 1) THI	(mr_pse_ss_mode = EN"	(powe POW etc). V prima states Suggestee Remo	er_not_available_ er_not_available_ ER_ON_PRI into When power_not_ ry alt state machi a. dRemedy we "!tmpdo_time ER_DENIED_PR	ne cannot transition i	POWER_[ne_pri * etc _not_availa odo_timer_ nto either II	c). Transition able_pri * tmp pri_done are DLE_PRI or F	logic from do_timer_pri_done * simultaneously TRUE POWER_DENIED_PR
1 33 SC 33.2.5.12 tover, David	P 81 Linear Techr Comment Status A		# <u>112</u> PSE SD		12, 114 nd LY to follow up				
	npdo_timer_done * etc); /ER_ON into IDLE is npdo_timer_done * etc). e and tmpdo_timer_done to either IDLE or POWE	e are simultaneou R_DENIED state	S.	(powe POW * etc). TRUE POW Suggestee Remo	Type TR ition logic from Pe r_not_available_s ER_ON_SEC into When power_no s, secondary alt si ER_DENIED_SE dRemedy we "!tmpdo_timet	Comment Status DWER_ON_SEC into sec * !tmpdo_timer_d IDLE_SEC is (!powe t_available_sec and t ate machine cannot t C states. _sec_done" from trar	Technolog A POWER_ one_sec * er_not_ava mpdo_time ransition ir	DENIED_SE etc). Transitio ilable_sec * ti er_sec_done ito either IDLI	on logic from mpdo_timer_sec_don are simultaneously
ACCEPT. TFTD. Don't we want the SD to t I believe the Type 1/2 SD See 113, 114) expires?		POW Response ACCE TFTD	ER_DENIED_SE		Ū.		

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

Cl 33 SC 33.2.5.12 P 86 L 1 # 115 Stover, David Linear Technology Linear Technology Linear Technology	C/ 33 SC 33.2.5.12 P 87 L 19 # 117 Stover, David Linear Technology						
Comment Type T Comment Status A PSE SD 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". Response Response Status C ACCEPT IN PRINCIPLE. C	Comment Type T Comment Status A PSE SD Transition logic from CLASS_EV2_PRI to MARK_EV2_PRI may be simplified. SuggestedRemedy Change transition logic from CLASS_EV2_PRI to MARK_EV2_PRI as follows: "tcle2_timer_pri_done * (mr_pd_class_detected = temp_var_pri)" Response Response Status C ACCEPT IN PRINCIPLE. TFTD						
Adopt stover_03_0516.pdf	OBE by 116.						
Stover, David Linear Technology	Cl 33 SC 33.2.5.12 P 87 L 36 # 118						
Comment Type T Comment Status A PSE SD 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). PSE SD	Stover, David Linear Technology Comment Type ER Comment Status A PSE SD State CLASS_EV1_LCE_PRI should read CLASS_EV1_LCE_RESET_PRI as described in 33.2.7.2						
SuggestedRemedy Strike the transition arc from CLASS_EV2_PRI to MARK_EV_LAST_PRI.	SuggestedRemedy Change state name "CLASS_EV1_LCE_PRI" to "CLASS_EV1_LCE_RESET_PRI"						
Response Response Status C ACCEPT IN PRINCIPLE.	Response Response Status C ACCEPT.						
On arc from CLASS_EV2_PRI to MARK_EV_LAST_PRI, replace "mr_pd_class_detected_pri != 4" with "class_num_events_pri = 2"	CI 33 SC 33.2.5.12 P 88 L 16 # 119 Stover, David Linear Technology						
on arc from CLASS_EV2_PRI to MARK_EV2_PR, replace "mr_pd_class_detected_pri = 4" with "class_num_events_pri > 2"	Comment Type T Comment Status A PSE SD Transition logic from CLASS_EV2_SEC to MARK_EV_LAST_SEC redundantly performs a check for !class_4PID_mult_events_sec (was already checked out of						
I believe this is needed because we can get to class2 if the class sig is 4, right?	CLASS_EV1_LCE_SEC).						
In addition, we can't strike the entire arc, it is checking for other things.	SuggestedRemedy Strike the transition arc from CLASS_EV2_SEC to MARK_EV_LAST_SEC.						
TFTD	Response Response Status C ACCEPT IN PRINCIPLE.						
	Implement same response as 116 with "sec" replacing "pri"						
	TFTD						
	See 116.						
TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/v SORT ORDER: Comment ID							

C/ 33 SC 33.2.5.12	P 88	L 18	# 120	C/ 33	SC 33.2.5.1	2	P 89	L 33	# 122
Stover, David	Linear Techn			Stover, Da			Linear Tech		
5	Comment Status A LASS_EV2_SEC to MARK_I	EV2_SEC may I	PSE SD pe simplified.		PSE is in the P		e, both alt_x		PSE SL _app_xxx are TRUE d MONITOR_INRUSH
SuggestedRemedy			0 ("			opping tinrush_x			
	<pre>c from CLASS_EV2_SEC to l * (mr pd class detected = te</pre>		C as follows:	Suggested	Remedy				
Response ACCEPT IN PRINCIPI	Response Status C	1		"alt_pr Replac	i_pwrd * !pwr_a	app_pri". jic from IDLE_INI	_	to MONITOR_INR	_
TFTD				Response		Response St	atus C		
Implement same respo	onse as 117 with "sec" replac	ing "pri"		ACCE	PT.				
C/ 33 SC 33.2.5.12 Stover, David	P 88 Linear Techn	L 35 ology	# 121	TFTD	true If an the	Type 1/2 SD has	this some i	aqua right?	
Comment Type ER	Comment Status A		PSE SD						
State CLASS_EV1_LC in 33.2.7.2	E_SEC should read CLASS	_EV1_LCE_RE	SET_SEC as described	C/ 33 Stover, Da	SC 33.2.6 vid		P 90 Linear Tech	L 6 nology	# 123
SuggestedRemedy				Comment	Туре Т	Comment S	tatus A		PSE Detection
Change state name "C	LASS_EV1_LCE_SEC" to "(CLASS_EV1_LC	E_RESET_SEC"						variants. Particularly,
Response	Response Status C				ET_SEQ 3 is un vestigating alt_		valid detect	tion signature on a	alt_pri prevents PSE
ACCEPT.				Suggested	Remedy				
						: "A Type 3 or Ty rm detection on t			PD signature on either
				Response		Response St	atus C		
				ACCE	PT IN PRINCIP	LE.			

Add the following text: "A Type 3 or Type 4 PSE detecting an invalid PD signature on either alternative may perform detection on the other alternative, and if valid may perform classification on that pairset."

C/ 33 SC 33.2.6	1 P 90)	L 39	# 124	CI 33	SC	33.2.7		P 96	L 17	#	126
Stover, David	Linear	Technolog	ду		Stover, D	avid			Linear Techno	ology		
SuggestedRemedy	Comment Status	om PSE SE			Link	e is a no Layer cl	assificatio	on takes precer	oower classificandence over Ph	tions for single-s lysical Layer clas does not have su	sification.	" Table
	o Tcc on line 27, Table 3	-	iccompanyin	g NOTE on Tcc min.	Suggeste	edReme	dy					
Response ACCEPT IN PRINC	Response Status PLE.	С						le 33–12: "Note assification."	e: Data Link La	yer classification	takes pre	cendence
TFTD					Respons ACC			Response S	Status C			
OBE by 107					01.00				D 07	1.40	щ	107
C/ 33 SC 33.2.7 Stover, David	P 96	3 Technolog	L 1	# 125	<i>CI</i> 33 Stover, D		33.2.7		P 97 Linear Techno	L 16 blogy	#	127
			ЗХ	PSE Class	Commen		т	Comment				PSE Class
to a dual-signature I	<i>Comment Status</i> n in Table 33–12 that th 2D for Type discovery, p	e PSE may erform clas		e, issue 3 class events	outsi	de beha	vior defin	ed in PSE SĎ;	behavior desci	n result on valid ibed in PSE SD vestigating both p	addresses	s valid cases
events consistent w	th PSE available power.				Suggeste	edReme	dy					
determine additiona	ble 33–12: "Note: PSEs information about the F	D and neg	otiate power	allocation. See	perfo	orm class		on any pairset		nnected to a dual alid detection sign		
	Reference this note in o		ader "Numbe	r of PSE class events".	Proposed	d Respo	nse	Response S	Status Z			
Response	Response Status	С			REJE	ECT.						
ACCEPT IN PRINC	PLE.				This	comme	nt was WI	THDRAWN by	the commente	er.		
recent PD reset." Re	ible 33–12: "Note: This i ference this note in colu in column header "Num	umn heade	r "Number of	FPSE class events".	Add t perfo	the follo	wing text:	"A Type 3 or T	Type 4 PSE cor	nected to a dual ection signature		

C/ 33 SC 33.2.7.2 P 97 L 41 # 128 C/ 33 SC 33.2.7.2 P 99 L 1 # 130 Stover, David Stover, David Linear Technology Linear Technology Comment Type TR Comment Status D Pres: Stover1 Comment Type TR Comment Status A PSF Class There are inconsistencies between Tpdc, autoclass, and mutiple-event classification. "If any measured IClass is equal to or greater than IClass LIM min, a Type 2. Type 3 or Type 4 PSE shall return to the IDLE state." Most importantly, this list is missing a serial SuggestedRemedy comma. Failing that, SISM state machines experiencing class overcurrent should likely return to their resident IDLE_PRI/IDLE_SEC state, and not the global IDLE state. See stover 01 0516.pdf Proposed Response Response Status Z SuggestedRemedy REJECT. "If any measured IClass is equal to or greater than IClass LIM min, a Type 2 PSE shall return to the IDLE state. If any measured IClass is equal to or greater than IClass LIM min. a Type 3 or Type 4 PSE shall return to the appropriate idle state." This comment was WITHDRAWN by the commenter. Response Response Status C WFP ACCEPT IN PRINCIPLE. TFTD OBE by 115. SC 33.2.7.2 # 129 C/ 33 P 98 L4 C/ 33 SC 33.2.8 P 101 L 51 # 131 Stover, David Linear Technology Stover, David Linear Technology Pres: Darshan9 Comment Type т Comment Status A Comment Type Comment Status D PSE Power т Requirements and allowances for 4PID, class, and mutual identification are unclear. Guidance on how to handle dual-signature PDs with mismatched Class/Type combinations SuggestedRemedy is unclear for some defined PSE implementations. Replace sentence: "Type 3 and Type 4 PSEs may issue a class reset event to perform SugaestedRemedv mutual identification." Insert the sentence "PSEs powering dual-signature PDs may enforce on both pairsets the With: "Type 3 and Type 4 PSEs may issue up to 3 class events to determine PD Class. values in Table 33-17 corresponding to the pairset of that PD identified as the highest PD Type 3 and Type 4 PSEs incapable of supporting negotiated PD Class may issue a class Class." reset event to clear the class and mark event counts." Proposed Response Response Status Z Response Response Status C REJECT. ACCEPT IN PRINCIPLE. This comment was WITHDRAWN by the commenter. OBE by 106 Insert the sentence "PSEs powering dual-signature PDs may enforce the values in Table I believe we also need to define "class reset" somewhere. We use the term a lot, but is it 33-17 corresponding to the pairset with the highest assinged class on both pairsets." defined anywhere? TFTD. LY TFTD

C/ 33 SC 33.2.8.5.1 Stover, David	P 110 Linear Technolo	L 32 ogy	# 132	<i>CI</i> 33 Yseboodt,	SC 33.1.3 Lennart	P 46 Philips	<i>L</i> 1	# 135
locations where this con	Comment Status A henated and not capitalized, p vention is not followed.	per our convent	<i>Editorial</i> ion. There are 2	<i>Comment</i> "It sho	51	Comment Status A the cable references use "I	DC loop resistand	<i>Editorial</i> e," which "
SuggestedRemedy Global search and repla Response	ce "single signature" with "sin Response Status C	gle-signature".		Suggested Less v	•			
ACCEPT. 	P 141 Linear Technolo	L 7 Dgy	# 133	Response ACCE		ferences use "DC loop resis Response Status C	stance," which	и
Comment Type TR PD input inrush current	Comment Status A requirements are inconsistent		Pres: Stover2 ions of the text.	C/ 33 Yseboodt,	SC 33.1.3.2 Lennart	P 46 Philips	L 30	# 136
SuggestedRemedy See stover_02_0516.pd Response ACCEPT IN PRINCIPLE OBE by 30 and	Response Status C			path o Suggested	n Clause 33 and n which the power 'Power signa <i>IRemedy</i>	Comment Status A its annexes, "channel", as d er signal passes, i.e., the linl I' seems strange. its annexes, "channel", as d	k section."	
CI 33SC 33.6.3.2Tremblay, DavidComment TypeER	P 170 Hewlett Packard Comment Status A	L 33 d Enter	# 134 Editorial	path o <i>Response</i> ACCE	·	er is transferred, i.e., the link Response Status C	section."	
Variables PD_DLL_MA> quantized to fit the avail SuggestedRemedy	PD_DLLMAX_VALUE on line <_VALUE, PD_INITIAL_VALU able resolution. _VALUE to PD_DLLMAX_VAL <i>Response Status</i> C	IE, and PSE_IN	IITIAL_VALUE, are	suppo Suggested	<i>Type</i> E 33-2. We made a rted". But no range <i>IRemedy</i> le 'Range of max	P 47 Philips Comment Status A a change last time to show t s have been defined, only a imum Classes supported da ss 4, Class 4, Class 4, Class	maximum class. ata from:	
				Response ACCE	"Class 3, Cla	Response Status C		ss 8"

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 33.2.2 Yseboodt, Lennart	P 47 Philips	L 31	# 138	<i>Cl</i> 33 <i>SC</i> 33.2.5.3 Yseboodt, Lennart	P 57 Philips	L 13	# 141
Comment Type E "Midspan PSE." period	Comment Status A dis inside quotes.		Editorial	Comment Type E Type still has underline	Comment Status A		Editorial
SuggestedRemedy Change to "Midspan F	PSE".			SuggestedRemedy Remove underline.			
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		
Cl 33 SC 33.2.5.4 Yseboodt, Lennart	Р 57 Philips	L 1	# 139	Cl 33 SC 33.2.5.12 Yseboodt, Lennart	e P 66 Philips	L 18	# 142
Comment Type E Values are written on this is hard to read.	Comment Status A same line after word "values:"		Editorial	Comment Type E alt_pri_pwrd and alt_se end of the variable nan	Comment Status A ec_pwrd do not follow our cor ne.	nvention of puttin	<i>Editorial</i> g _pri and _sec at the
SuggestedRemedy Move values to next lin Response ACCEPT.	ne and use tabs, like we did fo Response Status C	or the Type 3+4	variable list.	SuggestedRemedy Rename alt_pri_pwrd = Rename alt_sec_pwrd	=> alt_pwrd_sec		
C/ 33 SC 33.2.5.1. Yseboodt, Lennart	.1 <i>P</i> 57 Philips	L 1	# 140	= =	ner => tinrush_timer_pri imer => tinrush_timer_sec <i>Response Status</i> C		
Comment Type E	Comment Status A		Pres: Yseboodt6	ACCEPT.	Response Status		
original text: "Editors N Type 3 and Type 4 sta	Note (remove D2.0): Text is ne		ce the specifics of the	C/ 33 SC 33.2.5.9 Yseboodt, Lennart	P 69 Philips	L 11	# [143
SuggestedRemedy Adopt yseboodt_06_0 Remove Note.	516_sdintro.pdf				Comment Status A attempted to fix this but was ion of variable mr_pse_enabl		
Response ACCEPT IN PRINCIP	Response Status C LE.			SuggestedRemedy Remove all the "This v	alue corresponds with" sen	tences from mr_	pse_enable.
Adopt yseboodt_06_0 while striking "PSE" fro	516_sdintro.pdf (v120) om the table title.			Response ACCEPT.	Response Status C		
Remove Note.							

CI 33 S Yseboodt, Leni	SC 33.2.5.9	P 70 Philips	L 18	# 144	C/ 33 Yseboodt,	SC 33.3.2	2 P 120 Philips	L 31	# 146
Comment Type		Comment Status A		PSE SD	Comment		Comment Status A		Editoria
pd_cls_4P	PID_pri: This variable	indicates that 4PID has bee etection signature and that a		confirming that both	Table The w <i>Suggested</i>	33-20, colum ord "other" in	n "Other optional capabilities" the header is obsolete.		Lunona
I	Does not me	ntion on which Alternative.			Response		Response Status C		
SuggestedRen	nedy				ACCE				
Alternative	This variable by confirmir	indicates that 4PID has beeing that both pairsets have a Type 3 or Type 4 PD.			C/ 33 Yseboodt,	SC 33.3.3 Lennart	3.5 <i>P</i> 124 Philips	<i>L</i> 1	# [147
Response ACCEPT I	IN PRINCIPL	Response Status C E.			<i>Comment</i> The P	51	Comment Status A e machine has the issue that it	is incapable of lea	Pres: Yseboodt05 aving the IDLE state.
OBE by 10	04				Suggested See ys	-	0516_pdsmlegacy.pdf		
TFTD, DS	SC 33.3.1	P 119	L 41	# 145	Response ACCE	PT IN PRINC	Response Status C CIPLE.		
Yseboodt, Len		Philips		" [140	Adopt	yseboodt_05	_0516_pdsmlegacy.pdf (v112)		
	nd Type 4 PD	Comment Status A os shall be capable of accept ower on both pairsets."	ting power on eith	<i>Editorial</i> her pairset and shall be	WFP				
SuggestedRen	nedy				<u> </u>	SC 33.3.4	D 422	L 11	# 440
Shorter: "Type : pairsets."	3 and Type 4	PDs shall be capable of ac	cepting power on	either pairset and both	C/ 33 Yseboodt,	Lennart	Philips	L 11	# 148
Response		Response Status C			Comment		Comment Status A		Editoria
ACCEPT.		Response status C			Suggested		n widths are too narrow.		
					Response ACCE		Response Status C		

C/ 33 SC 33.3.5 Yseboodt, Lennart	P 133 Philips	L 22	# 149	C/ 33 SC 33.3. Yseboodt, Lennart	5.3 <i>P</i> 136 Philips	L 44	# 152
Comment Type E "Type 1 PDs and Class	Comment Status A s 1 to 3 Type 3 PDs" is hard t	o read.	Editorial		Comment Status A VPort_PD min" in column "Additic	onal information'	<i>Editorial</i> had larger font size
SuggestedRemedy Change to: "Type 1 PDs and Type	e 3 Class 1 to 3 PDs"			(2x) <i>SuggestedRemedy</i> Change font size.			
Response ACCEPT.	Response Status C			Response ACCEPT.	Response Status C		
C/ 33 SC 33.3.5.1 Yseboodt, Lennart	P 133 Philips	L 23	# 150	C/ 33 SC 33.3. Yseboodt, Lennart	7.1 <i>P</i> 140 Philips	L 4	# 153
Comment Type E "Type 2 PDs, Class 4 t DLL classification."	Comment Status A to 6 Type 3 PDs, Type 4 PDs	, and dual-signa	<i>Editorial</i> ture PDs shall provide	,	Comment Status A E - (R Chan x I Port-2P)" ont size than the rest of equation.		Editorial
Better to mention Type	e first, then Class.			SuggestedRemedy Change to correct			
"Type 2 PDs, Type 3 0 DLL classification."	Class 4 to 6 PDs, Type 4 PDs	, and dual-signa	ture PDs shall provide	Response ACCEPT.	Response Status C		
Response ACCEPT.	Response Status C			C/ 33 SC 33.3. Yseboodt, Lennart	7.2.1 <i>P</i> 140 Philips	L 50	# 154
C/ 33 SC 33.3.5.1 Yseboodt, Lennart	P 133 Philips	L 41	# 151	Comment Type E PPort_PD-2P in ec	Comment Status A quation 33-24 font size is larger th	an e.g. equatior	Editoria 33-23.
	Comment Status A Type 4 PDs operating with a n bond to Single-Event classifica			SuggestedRemedy Change to correct Response	font size. [Note to self: all Eqs mu Response Status C	ust be medium-s	size].
Class 4 sigr	nature == class signature `4`.			ACCEPT.			
	Type 4 PDs operating with a n bond to Single-Event classifica						
Response ACCEPT.	Response Status C		-				

ACCEPT.

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C/ 33 SC 33.3.7 Yseboodt, Lennart	7.3 P 141 Philips	L 22	# 155	Cl 33 SC 33.3. Yseboodt, Lennart	7.6 <i>P</i> 145 Philips	L 23	# 158
voltage, V On_PD	Comment Status A h pairset starts when V PD cros " ont size than V On_PD.	sses the PD powe	<i>Editorial</i> er supply turn on	max and has an in	Comment Status A Type 4 PD with peak power dra out capacitance of 360mF or les isients at the PD PI."		
SuggestedRemedy				"P Class PD" has r	o underline between "P Class"	and "PD"	
Change to correct f	ont size			SuggestedRemedy			
Response ACCEPT.	Response Status C			Add underline.			
ACCEPT.				Response	Response Status C		
C/ 33 SC 33.3.7 Yseboodt, Lennart	7.3 <i>P</i> 141 Philips	L 23	# 156	ACCEPT.			
	Comment Status A		Editorial	CI 33 SC 33.3.		L 31	# 159
Comment Type E	Comment Status A		Luitonai	Yseboodt, Lennart	Philips		
	red so that the Type 2, Type 3 a	and Type 4 PD do		Yseboodt, Lennart Comment Type E	Philips Comment Status A		Editorial
"This delay is requi Use "or" instead of SuggestedRemedy	red so that the Type 2, Type 3 a "and".		bes not enter".	Comment Type E "A Type 1 PD inpu 38) after T LIM mir			plate (see Figure 33-
"This delay is requi Use "or" instead of SuggestedRemedy "This delay is requi	red so that the Type 2, Type 3 a "and". red so that the Type 2, Type 3 c		bes not enter".	Comment Type E "A Type 1 PD input	Comment Status A current shall not exceed the Pl (see Table 33-17 for a Type 1		plate (see Figure 33-
"This delay is requi Use "or" instead of SuggestedRemedy	red so that the Type 2, Type 3 a "and".		bes not enter".	Comment Type E "A Type 1 PD inpur 38) after T LIM mir applied." "T LIM" does not e SuggestedRemedy	Comment Status A current shall not exceed the Pl (see Table 33-17 for a Type 1 kist anymore.		plate (see Figure 33-
"This delay is requi Use "or" instead of SuggestedRemedy "This delay is requi Response ACCEPT.	red so that the Type 2, Type 3 a "and". red so that the Type 2, Type 3 c <i>Response Status</i> C		bes not enter". Is not enter".	Comment Type E "A Type 1 PD input 38) after T LIM min applied." "T LIM" does not e SuggestedRemedy Change to "T LIM-2	Comment Status A current shall not exceed the Pl (see Table 33-17 for a Type 1 kist anymore.		plate (see Figure 33-
"This delay is requi Use "or" instead of SuggestedRemedy "This delay is requi Response ACCEPT.	red so that the Type 2, Type 3 a "and". red so that the Type 2, Type 3 c <i>Response Status</i> C	or Type 4 PD doe	bes not enter".	Comment Type E "A Type 1 PD input 38) after T LIM min applied." "T LIM" does not e SuggestedRemedy Change to "T LIM-2 Response	Comment Status A current shall not exceed the Pl (see Table 33-17 for a Type 1 kist anymore.		plate (see Figure 33-
"This delay is requi Use "or" instead of SuggestedRemedy "This delay is requi Response ACCEPT. Cl 33 SC 33.3.7	red so that the Type 2, Type 3 a "and". red so that the Type 2, Type 3 c <i>Response Status</i> C 7.5 <i>P</i> 143	or Type 4 PD doe	bes not enter". Is not enter".	Comment Type E "A Type 1 PD input 38) after T LIM min applied." "T LIM" does not e SuggestedRemedy Change to "T LIM-2	Comment Status A current shall not exceed the Pl (see Table 33-17 for a Type 1 kist anymore.		plate (see Figure 33-
"This delay is requi Use "or" instead of SuggestedRemedy "This delay is requi Response ACCEPT. C/ 33 SC 33.3.1 Yseboodt, Lennart Comment Type E "NOTEPDs are re	red so that the Type 2, Type 3 a "and". red so that the Type 2, Type 3 d <i>Response Status</i> C 7.5 <i>P</i> 143 Philips <i>Comment Status</i> A equired to meet Equation (33-2) sults from Figure 33-38, Figure 33-29) ."	br Type 4 PD doe	bes not enter". s not enter". # <u>157</u> <i>Editorial</i> a slightly lower power	Comment Type E "A Type 1 PD input 38) after T LIM min applied." "T LIM" does not e SuggestedRemedy Change to "T LIM-2 Response	Comment Status A current shall not exceed the Pl (see Table 33-17 for a Type 1 kist anymore.		plate (see Figure 33-
"This delay is requi Use "or" instead of SuggestedRemedy "This delay is requi Response ACCEPT. C/ 33 SC 33.3.7 Yseboodt, Lennart Comment Type E "NOTEPDs are re and current than re 28) and Equation (3	red so that the Type 2, Type 3 a "and". red so that the Type 2, Type 3 d <i>Response Status</i> C 7.5 <i>P</i> 143 Philips <i>Comment Status</i> A equired to meet Equation (33-2) sults from Figure 33-38, Figure 33-29) ."	br Type 4 PD doe	bes not enter". s not enter". # <u>157</u> <i>Editorial</i> a slightly lower power	Comment Type E "A Type 1 PD input 38) after T LIM min applied." "T LIM" does not e SuggestedRemedy Change to "T LIM-2 Response	Comment Status A current shall not exceed the Pl (see Table 33-17 for a Type 1 kist anymore.		plate (see Figure 33-
"This delay is requi Use "or" instead of SuggestedRemedy "This delay is requi Response ACCEPT. C/ 33 SC 33.3.7 Yseboodt, Lennart Comment Type E "NOTEPDs are re and current than re 28) and Equation (3 Font size fluctuates	red so that the Type 2, Type 3 a "and". red so that the Type 2, Type 3 c <i>Response Status</i> C 7.5 <i>P</i> 143 Philips <i>Comment Status</i> A equired to meet Equation (33-2) sults from Figure 33-38, Figure 33-29) ." s in Note.	br Type 4 PD doe	bes not enter". s not enter". # <u>157</u> <i>Editorial</i> a slightly lower power	Comment Type E "A Type 1 PD input 38) after T LIM min applied." "T LIM" does not e SuggestedRemedy Change to "T LIM-2 Response	Comment Status A current shall not exceed the Pl (see Table 33-17 for a Type 1 kist anymore.		plate (see Figure 33-
"This delay is requi Use "or" instead of SuggestedRemedy "This delay is requi Response ACCEPT. Cl 33 SC 33.3.7 Yseboodt, Lennart Comment Type E "NOTEPDs are re and current than re 28) and Equation (3 Font size fluctuates SuggestedRemedy	red so that the Type 2, Type 3 a "and". red so that the Type 2, Type 3 c <i>Response Status</i> C 7.5 <i>P</i> 143 Philips <i>Comment Status</i> A equired to meet Equation (33-2) sults from Figure 33-38, Figure 33-29) ." s in Note.	br Type 4 PD doe	bes not enter". s not enter". # <u>157</u> <i>Editorial</i> a slightly lower power	Comment Type E "A Type 1 PD input 38) after T LIM min applied." "T LIM" does not e SuggestedRemedy Change to "T LIM-2 Response	Comment Status A current shall not exceed the Pl (see Table 33-17 for a Type 1 kist anymore.		plate (see Figure 33-

C/ 33	SC 33.3.7.9	P 147	L 16	# 160	C/ 33	SC 33.3	.8	P 148	L 26	# 163
Yseboodt	, Lennart	Philips			Yseboodt,	Lennart		Philips		
Comment	Туре Е	Comment Status A		Editorial	Comment	Туре Е		Comment Status A		Editoria
condu Mode in Tal	uctors for Mode A B with a 100 kOl ble 33-28. When '	max is applied across the PI according to Table 33-19, th nm load resistor connected sl V Port_PD-2P max is applied ctors for Mode B according to	e voltage measu nall not exceed \ across the PI at	red across the PI for / bfd max as specified : either polarity	remov	/ed within th	e limi	intain the MPS components n ts of T MPDO as specified in ⁻ historic positional reference tl	Table 33-17."	
acros max."	s the PI for Mode	A with a 100 kohm load resis			Chang	ove "mention ge to:			1 1	
	e two lines can be	e merged.						intain the MPS components n ecified in Table 33-17."	nay nave its p	ower removed within the
Suggeste	-				Response			Response Status C		
condu	ctors of either M	max is applied across the PI ode A or Mode B according to ther Mode with a 100 kOhm lo	o Table 33-19, th	e voltage measured	ACCE					
V bfd	max as specified	in Table 33-28."			C/ 33	SC 33.3	.8	P 148	L 41	# 164
Response)	Response Status C			Yseboodt,	Lennart		Philips		
ACCE	EPT.				Comment	Type E		Comment Status A		Editorial
CI 33 Yseboodt	SC 33.3.7.10	P 147 Philips	L 25	# [161				s that detect a long first class rder to draw a lower standby N		ange of T LCE_PD may
Comment	• •	Comment Status A		Editorial	Suggested		ot say	where to find T LCE_PD.		
Suggeste	dRemedy	PD PI pair-to-pair resistance -to-pair current unbalance"	and current und	alance	"Туре	3 and Type d in Table 3		s that detect a long first class may reduce T MPS_PD in or		
Response ACCE		Response Status C			Response ACCE			Response Status C		
C/ 33 Yseboodt	SC 33.3.7.10 , Lennart	P 148 Philips	<i>L</i> 1	# 162	C/ 33 Yseboodt,	SC 33.6 Lennart	.2	P 169 Philips	L 6	# 165
Comment Figure	<i>Type</i> E e 33-40 has uncle	Comment Status A		Editorial	Comment "Type		PSEs	Comment Status A shall send an LLDPDU conta	ining"	Editorial
Suggeste	,					PSEs c	ontair	ns underline.		
		p-pair current unbalance test	setup"		Suggested	dRemedy				
Response		Response Status C			Remo	ve underline	Э.			
ACCE	EPT.				Response ACCE			Response Status C		

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 165

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C/ 33 SC 33.6.3.	2 <i>P</i> 169	L 44	# 166	C/ 79 SC	79.3.2	P 203	L 53	# 169
Cl 33 SC 33.6.3. Yseboodt, Lennart	Philips	L 44	# 100	Yseboodt, Lenna		Philips	L 33	# 169
Comment Type E	Comment Status A		Pres: Yseboodt1	Comment Type	Е	Comment Status A		Editoria
LLDP can support e	xtended power in a better way.					of 79.3.2 explains that Figure	e 79-3 is a revisi	ion of the original TLV
SuggestedRemedy						09 Annex F.3. v further revised this TLV with	n new capabilitie	es.
Adopt yseboodt_01_	_0516_lldpext.pdf			SuggestedReme				
Response	Response Status C				•	page 204, line 7:		
ACCEPT.						igure 79-3 has been further i		
TFTD						Type 3 and Type 4 PSEs and ype 4 PSEs and PDs may us		
C/ 79 SC 79.3.2	D 202	L 29	# 407	Response		Response Status C		
C/ 79 SC 79.3.2 Yseboodt, Lennart	P 203 Philips	L 29	# 167	ACCEPT.				
Comment Type E	Comment Status A		Editorial	CI 79 SC	79.3.2.6	P 206	L 49	# 170
	devices to draw/supply power	over the sample	generic cabling as	Yseboodt, Lenna	art	Philips		
used for data transm	nission."			Comment Type	Е	Comment Status A		Editorial
•	hould be 'same' ?					is missing the word 'Insert'. something removed all the v	vords "insert" fro	om the draft it seems).
SuggestedRemedy	v devices to draw/supply power	over the same g	eneric cabling as used		t one point dy	something removed all the v	vords "insert" fro	om the draft it seems).
SuggestedRemedy "These entities allow for data transmissior	v devices to draw/supply power	over the same g	eneric cabling as used	(A SuggestedReme	t one point dy	something removed all the v	vords "insert" fro	om the draft it seems).
SuggestedRemedy "These entities allow	v devices to draw/supply power on."	over the same g	eneric cabling as used	(A SuggestedReme Add 'Insert' b	t one point dy	something removed all the v	vords "insert" fro	om the draft it seems).
SuggestedRemedy "These entities allow for data transmissior Response ACCEPT.	v devices to draw/supply power o n." <i>Response Status</i> C	over the same g	eneric cabling as used	(A SuggestedReme Add 'Insert' b Response ACCEPT.	t one point dy	something removed all the v	vords "insert" fro	om the draft it seems). # 171
SuggestedRemedy "These entities allow for data transmissior Response ACCEPT. Cl 79 SC 79.3.2	v devices to draw/supply power o n." <i>Response Status</i> C			(A SuggestedReme Add 'Insert' b Response ACCEPT.	at one point edy before 'sect	something removed all the v tions'. <i>Response Status</i> C		
SuggestedRemedy "These entities allow for data transmission Response ACCEPT. Cl 79 SC 79.3.2 Yseboodt, Lennart	v devices to draw/supply power on." Response Status C			(A SuggestedReme Add 'Insert' t Response ACCEPT. CI 79 SC	at one point edy before 'sect	something removed all the v tions'. <i>Response Status</i> C <i>P</i> 211		
SuggestedRemedy "These entities allow for data transmission Response ACCEPT. Cl 79 SC 79.3.2 Yseboodt, Lennart Comment Type E	v devices to draw/supply power o n." <i>Response Status</i> C <i>P</i> 203 Philips		# [168	(A SuggestedReme Add 'Insert' t Response ACCEPT. CI 79 SC Yseboodt, Lenna Comment Type	t one point edy before 'sect 79.3.7.1 art E	something removed all the v tions'. <i>Response Status</i> C <i>P</i> 211 Philips	L 23	# [<u>171</u> <i>LLDF</i>
SuggestedRemedy "These entities allow for data transmission Response ACCEPT. CI 79 SC 79.3.2 Yseboodt, Lennart Comment Type E Figure 79-3 uses a d	v devices to draw/supply power o n." <i>Response Status</i> C <i>P</i> 203 Philips <i>Comment Status</i> A		# [168	(A SuggestedReme Add 'Insert' t Response ACCEPT. CI 79 SC Yseboodt, Lenna Comment Type	t one point edy before 'sect 79.3.7.1 art E 6f on PD m	something removed all the v tions'. <i>Response Status</i> C <i>P</i> 211 Philips <i>Comment Status</i> A	L 23	# [<u>171</u> <i>LLDF</i>
SuggestedRemedy "These entities allow for data transmission Response ACCEPT. CI 79 SC 79.3.2 Yseboodt, Lennart Comment Type E Figure 79-3 uses a d SuggestedRemedy	v devices to draw/supply power o n." <i>Response Status</i> C <i>P</i> 203 Philips <i>Comment Status</i> A		# [168	(A SuggestedReme Add 'Insert' t Response ACCEPT. Cl 79 SC Yseboodt, Lenna Comment Type In Table 79-6 SuggestedReme	t one point edy before 'sect 79.3.7.1 art E 6f on PD m edy	something removed all the v tions'. <i>Response Status</i> C <i>P</i> 211 Philips <i>Comment Status</i> A	L 23 efers to "Pairset	# 171 <i>LLDF</i> t Alternative A" and "B".
SuggestedRemedy "These entities allow for data transmission Response ACCEPT. CI 79 SC 79.3.2 Yseboodt, Lennart Comment Type E Figure 79-3 uses a d SuggestedRemedy	v devices to draw/supply power o n." Response Status C P 203 Philips Comment Status A different font than 79-2.		# [168	(A SuggestedReme Add 'Insert' t Response ACCEPT. Cl 79 SC Yseboodt, Lenna Comment Type In Table 79-6 SuggestedReme	t one point edy before 'sect 79.3.7.1 art E 6f on PD m edy	something removed all the v tions'. <i>Response Status</i> C <i>P</i> 211 Philips <i>Comment Status</i> A neasurements, Item 92:91 it r	L 23 efers to "Pairset	# [<u>171</u> <i>LLDP</i> t Alternative A" and "B".

C/ 33 SC 33B Yseboodt, Lennart	P 232 Philips	L 36	# 172	C/ 33 SC Yseboodt, Lenn	33.2.5.9	P 70 Philips	L 48	# 174
Comment Type E	Comment Status A		Annex 33B	Comment Type		Comment Status A		PSE SI
"When the PSE is te R ch_x < 0.1 O, the	ested for channel common mod PSE shall be tested with (R loa I-2P-unb requirements and R P	d_min - R ch_x)	s than 0.1 O, i.e. 0 O <) and (R load_max - R	Why use the In state diag SuggestedReme	e negation "pow gram is written tl	er_not_available"? nen (not power_not_ava	ilable) and is dou	
Rch is the maximum Rch_x is simply con	n channel resistance. Rchan is t fusing.	the actual chann	el resistance.	- Reverse F	alse/True mean		ed.	
SuggestedRemedy Replace Rch_x by R	Rchan.			Response ACCEPT.	Re	esponse Status C		
Response ACCEPT.	Response Status C			CI 33 SC Yseboodt, Lenn	33.2.5.12 art	P 80 Philips	L 9	# 175
C/ 33 SC 33.2.5. Yseboodt, Lennart Comment Type E	.9 P 70 Philips Comment Status A	L 25	# 173 PSE SD		5, arc from DET	Comment Status A ECT_EVAL to A1 n) * (sig_pri = valid) + (d	et_temp = both_r	PSE Si neither) * (sig_sec =
pd_cls_4PID_sec: This varia pairsets have a valic PD.	ble indicates that 4PID has bee d detection signature and that a mention on which Alternative.		confirming that both	Missing bra	edy	h) * (sig_pri = valid)) + ((det_temp = both	_neither) * (sig_sec =
SuggestedRemedy pd_cls_4PID_sec: This varia Alternative by confin	ble indicates that 4PID has bee ming that both pairsets have a		5	Response ACCEPT. TFTD, see		esponse Status C		
device classified as Response ACCEPT IN PRINCI	a Type 3 or Type 4 PD. Response Status C IPLE.							
OBE by 105								
TFTD, DS								

Cl 33 SC Yseboodt, Lenna	33.2.5.12 art	P 80 Philips	L 24	# 176	C/ 33 Yseboodt,	SC 33.2.5.12 Lennart	2 P 80 Philips	L 30	# 178
	, arc from CXN_	mment Status A CHK_DETECT_EVAL used => what was the		Pres: Yseboodt6		51	Comment Status A DETECT_EVAL to A: pelled.		PSE SD
SuggestedReme TFTD.	dy				Suggester Chan	dRemedy ge to both_neithe	ır.		
Response ACCEPT IN		ponse Status C			Response ACCE		Response Status C		
Transition is TFTD as req	correct, no chan	ges.			C/ 33 Yseboodt,	SC 33.2.5.12 Lennart	P 80 Philips	L 30	# 179
Also see 109		P 80	L 30	# 177	() +	e 33-15, arc from	Comment Status A DETECT_EVAL to A: tive is not both) * (sig_pri is	s not valid)	Pres: Yseboodt6
(mr_pse_alten noth_neither	E Con 5, arc from DETE ernative = both) *) * (sig_sec [?] va		$Q = 0) + (CC_DE)$		Suggester use b () + could (() + Response	dRemedy rackets probab ((mr_pse_alterna also be • (mr_pse_alterna	ative is not both) * (sig_pri ative is not both)) * (sig_pri <i>Response Status</i> C	,,	
"sig" doesn`t	exist. sig_pri is r	neant?			Trans	ition is correct, n	o changes.		
SuggestedReme Change sig t					C/ 33 Yseboodt,	SC 33.2.5.12 Lennart	P 86 Philips	L 53	# 180
Response ACCEPT.	Res	ponse Status C			Comment C1 ex	<i>Type</i> E it arrow not read	Comment Status A able.		Editoria
					S <i>uggeste</i> e Wider	dRemedy a arrow to better	fit text.		
					Response ACCE		Response Status C		

C/ 33 SC 33.2.5.12 Yseboodt, Lennart	P 89 Philips	L 3	# 181	<i>Cl</i> 33 <i>SC</i> 33.2.7 Yseboodt, Lennart	P 95 Philips	L 43	# 184
Comment Type E Figure 33-22, entry arcs "higest_2p" is misspelle SuggestedRemedy Change to "highest_2P Response	ed.		PSE SD	Table 33-11, some ranges SuggestedRemedy Change "2 to 3" into "2, 3". Response R		etter to make it e	<i>Editorial</i> xplicit.
ACCEPT. TFTD, DS	·			ACCEPT IN PRINCIPLE. Change to "2 or 3" Consider "2 or 3" as it is th		stable. If you age	ree, pull it out as a
Cl 33 SC 33.2.6.1 Yseboodt, Lennart Comment Type E	P 90 Philips Comment Status A	L 15	# 182 Editorial	TFTD so we can change it, TFTD, YD, LY	, otherwise "2, 3" it is.		
51	kets, this is not convention		Luitonai	<i>Cl</i> 33 <i>SC</i> 33.2.7 Yseboodt, Lennart	P 96 Philips	L 2	# 185
Change to Vvalid max. Response ACCEPT.	Response Status C			Comment Type E (Column "Assigned Class" i SuggestedRemedy Add this column, values: 1.	-		PSE Class
C/ 33 SC 33.2.6.7 Yseboodt, Lennart	P 93 Philips	L 51	# 183		Response Status C		
Comment Type E 4PID in PSE section is Make this consistent.	Comment Status A named 4P-ID in PD section.		Editorial	C/ 33 SC 33.2.7 Yseboodt, Lennart	P 96 Philips	L 12	# 186
SuggestedRemedy Change "4P-ID" to "4PI	D" throughout the doc.			Comment Type E (Ranges are used with keyv	Comment Status A vord "to" and not a dash.		Editorial
Response ACCEPT.	Response Status C			SuggestedRemedy Change "4-5" into "4 to 5".			
				Response R ACCEPT.	esponse Status C		

CI 33 SC 33.2.7 P 96 L 12 # 187 Yseboodt, Lennart Philips	CI 33 SC 33.2.7.3 P 101 L 43 # 190 Yseboodt, Lennart Philips
Comment Type E Comment Status A Editorial Table 33-12, ranges are very small, maybe better to make it explicit. SuggestedRemedy Editorial SuggestedRemedy Change "1 to 3" into "1, 2, 3". Do this for all ranges in this Table for the "Number of PSE class events" column. Response Response Status C ACCEPT. Endet Editorial	Comment Type E Comment Status A Editorial "PAutoclass in Watts" dimension should not be plural. SuggestedRemedy Editorial SuggestedRemedy Change to "PAutoclass in Watt" C Response Response Status C ACCEPT IN PRINCIPLE. Editor to check on proper usage. This seems weird to me.
See 184 Cl 33 SC 33.2.7.2 P 100 L 17 # 188 Yseboodt, Lennart Philips Editorial Comment Type E Comment Status A Editorial Table 33-15, Item 10 and 11, say "See section 33.2.7.2". SuggestedRemedy Change to "See 33.2.7.2". Response Response Status C ACCEPT. C C	Cl 33 SC 33.2.8.1 P 106 L 1 # 191 Yseboodt, Lennart Philips Comment Type E Comment Status A Editorial Class 1-4 is not allowed. SuggestedRemedy Change to: "Class 1 to 4" Response Response Status C ACCEPT.
Cl 33 SC 33.2.7.3 P 101 L 33 # 189 Yseboodt, Lennart Philips Comment Type E Comment Status A Autoclass Autoclass margin formula is not described but is defined in this section. SuggestedRemedy "P_ac_margin is the minimum amount of power the PSE must add to P_Autoclass in order to allocate enough power to cope with increases in channel resistance due to heating. P_ac_margin is defined in Equation (33-4)." Response Response Status C ACCEPT. ACCEPT. Autoclass	Cl 33 SC 33.2.8.4.1 P 108 L 30 # 192 Yseboodt, Lennart Philips Comment Type E Comment Status A Editorial "Type 3 and Type 4 PSEs operating over 4-pair are subject to unbalance requirements in this section." SuggestedRemedy "This section describes unbalance requirements for Type 3 and Type 4 PSEs that operate over 4-pair." Response Response Status C ACCEPT. C C

Cl 33 SC 33. Yseboodt, Lennart	2.8.4.1	P 108 Philips	L 39	# 193	C/ 33 Yseboo	SC 33.2.8.5 dt, Lennart	5 P 110 Philips	L 9
Comment Type E	E Con	nment Status A		Editor		ent Type E	Comment Status A	
"Icon-2P-unb is s	specified for to	otal channel common	mode pair resist	ance from"	Equ	ation 33-14 uses		
SuggestedRemedy							is neither a y0 or a y2, we can	n also rename it to 'i'.
Change to:					00	tedRemedy		
•	•	tal channel common r	node pair resist	ance ranging from"			Equation and variable list.	
Response ACCEPT.	Resp	onse Status C			Respor AC	se CEPT IN PRINCIF	Response Status C PLE.	
C/ 33 SC 33.	2.8.5	P 109	L 10	# 194	Re	name it "Imax". "i'	seems like an index to some	ething.
Yseboodt, Lennart		Philips			"Im	ax" stands for Ima	ax since this is what the varial	ble represents.
	ode occurs or	nment Status A each pairset betweer				ΓD, LY		
and Type 2 PSE	s that make u	set and either the exp se of legacy powerup, nd legacy_powerup in	the conclusion		C/ 33 Yseboo	SC 33.2.8.5 dt, Lennart	5.1 <i>P</i> 110 Philips	L 37
seems to be ider	ntical to the P	' is only used 3 times OWER_UP state. Is th				<i>nt Type</i> E ring the POWER_	Comment Status A	
If not => replace	by POWER_	UP.			Sugges	tedRemedy		
		to "POWER_UP". o "Output current durir		n	"	orter: during POWER_U o on line 44	JP"	
Response		onse Status C	IGT OWER_OF		Respor		Response Status C	
ACCEPT.					AC	CEPT.		
					CI 33	SC 33.2.8.7		L 22
					Yseboo	dt, Lennart	Philips	
					"A		Comment Status A R_ON state may remove pow voltage no longer meets the	
					ΤL	IM does not exist.		
					Sugges	tedRemedy		
							R_ON state may remove pov rset voltage no longer meets	
					Respor	SE	Response Status C	

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

Renam	e 'y1' to	o 'i' in Equa	ation and varia	ble lis	st.		
Response ACCEF	PT IN P	RINCIPLE	Response Sta	atus	С		
Renam	e it "Im	ax". "i" se	ems like an in	dex to	o some	thing.	
"Imax" :	stands	for Imax si	ince this is wh	at the	variab	le represents.	
TFTD, I	LY						
C/ 33 Yseboodt, L		3.2.8.5.1		P 1 [.] Philip:		L 37	# 196
Comment T "during		E WER_UP	Comment St period".	atus	Α		Edito
SuggestedF Shorter " durin Also on	: ng POV	VER_UP .	"				
Response ACCEF	۲.		Response Sta	atus	С		
C/ 33 Yseboodt, L		3.2.8.7	I	P 1 Philip		L 22	# 197
	in the			remo	ve pow	rer from a pairset / Port_PSE-2P sp	<i>Editc</i> without regard to T pecification."
T LIM d	loes no	t exist.					
	in the	POWER_				ver from a pairset he V Port_PSE-2	without regard to T
	which t	ne panser					

Comment ID 197

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Editorial

CI 33 SC 33.2.8 Yseboodt, Lennart	3.13 <i>P</i> 115 Philips	L 37	# 198	C/ 1 Yseboodt	SC 1 t, Lennart	P 1 Philips	L 1	# 201
Comment Type E "Type 3 and Type 4	Comment Status A PSEs, when connected to a sir ON state within T pon after dete			Commen Do ye Suggeste	t Type ER	Comment Status A reset the change bars in Clause 3	33 for D1.8 ?	Editorial
SuggestedRemedy "Type 3 and Type 4	PSEs, when connected to a sir within T pon after completing de			Respons ACC		Response Status C IPLE.		
Response ACCEPT.	Response Status C			Yes <i>Cl</i> 1 Ysebood	SC 1	P 1 Philips	<i>L</i> 1	# 202
SuggestedRemedy - Remove 'bold' fror - Fix item numb	Philips <i>Comment Status</i> A atted differently from every othe m subtable headers (eg. "AC sig ering to be numerical (1, 2, 3,	nal parameters")		Commen As w Suggeste Rem	<i>t Type</i> ER e are preparing ed <i>Remedy</i> ove all Editor's	Comment Status A for D2.0 in July, we need to be g Notes that do not specifically say Response Status C		
Response ACCEPT.	Response Status C			TFT		otes with the following exceptions	:	
the first 3 items (line	0.1.2 P 118 Philips Comment Status A 1 and Type 2 requirements (the e 32, 34 and 36/37). stated above and is not needed	,.	# 200 PSE MPS say "the applicable" in	1. Al 2. pa 3. pa 4. pa 5. pa		marked "remove prior to publica		
Remove "the applic	able" three times.							
Response ACCEPT.	Response Status C							

C/ 33 SC 33.2	2.6.1	P 90	L 52	# 203	C/ 33	SC	33.2.7.2	P 97	L 48	# 205
Yseboodt, Lennart		Philips			Yseboodt	, Lenna	rt	Philips		
Comment Type E	R Co	omment Status A		Editorial	Comment	Туре	ER	Comment Status A		PSE Class
connection check	, the PSE s	et rises above Vvalid r shall reset the PD by b) for at least TReset (d	ringing the voltage			and Ta	able 33-14.	ture measurements of I Clas and 33-12 are not relevant to	·	
This w	ou of rotorri	aa ta Tablaa ia waad a	owhere cleases the	Droft	mapp	ing.				0
	ay of referri	ng to Tables is used no	ownere eise in the	e Draft.	Suggeste	dReme	dy			
SuggestedRemedy				T () 2 2 3 3 4 4	"PD c	lassifica	ation signa	ture measurements of I Clas	s are specified in	n Table 33-14."
connection check	, the PSE s n Table 33-	et rises above Vvalid r shall reset the PD by b 17, for at least TReset	ringing the voltag	e at the PI below Voff	Response ACCE			Response Status C		
Response	Re	sponse Status C			CI 33	SC	33.2.7.2	P 98	L 25	# 206
ACCEPT.					Yseboodt	, Lenna	rt	Philips		
					Comment	Туре	ER	Comment Status A		Editoria
C/ 33 SC 33.2	2.6.4	P 93	L 11	# 204			25 we hav			
Yseboodt, Lennart		Philips						EV1, CLASS_EV1_LCE, C C,CLASS EV2,CLASS EV2		
termination circui	JTION tem, the im try to elimin	plement Status A plementer should mair late cross-port leakage ote is inconsistent with	e currents."	Editoiral through the	LASS ASS_ PSE : currer	EV3_I EV5,CL shall me nt."	PRI,CLAS _ASS_EV1 easure I Cl	S_EV3_SEC,CLASS_EV4,C _LCE_RESET_PRI, and CL ass after T Class and classif	LASS_EV4_PRI ASS_EV1_LCE_	I,CLASS_EV4_SEC,CL _RESET_SEC, the
SuggestedRemedy							on p99, line	e 5: f I Class shall be taken after	T Class as dof	inod in Table 22.15
Follow same style	e as 802.3-2	2015.						ferenced from the application		
Response	Re	sponse Status C			transi					0
ACCEPT.						ng and t r really f		read. Also, "classify the PD b	ased on the obs	erved current" is no
					Suggeste	dReme	dy			
						"In all	I CLASS st	ng on p98, line 25: ates except CLASS_EV1_Al		

after T Class. This measurement is referenced from the application of V Class min to ignore initial transients. "

Response Status C

Response

ACCEPT.

CI 33 S Yseboodt, Len	SC 33.2.7.2 Inart	P 98 Philips	L 38	# 207	<i>CI</i> 33 Yseboodt, L	SC 33.2.7.2 ennart	P 99 Philips	L 30	# 209
pairset V I When the MARK_E\	e Type 2 PSE is Mark . The timin e PSE is in the /_LAST_SEC,	Comment Status A s in the state MARK_EV2, ng specification shall be as state MARK_EV_LAST, M the PSE shall provide to th	defined by T ME	2. _PRI and	Comment T Itemcou SuggestedF Fix. Response	Int is wrong in T	Comment Status A Table 33-15, item 6 is liste Response Status C	ed twice.	Edito
Can be n SuggestedRer "When the	nerged without <i>medy</i> PSE is in the	defined by T ME2." changing meaning. state MARK_EV2, MARK_			ACCEP CI 33 Yseboodt, L	SC 33.2.7.3 ennart	P 101 Philips	L 10	# 210
	on shall be as o	the PSE shall provide to th defined by T ME2." <i>Response Status</i> C	e PI or pairset V	Mark . The timing	Comment T	SE implements	Comment Status A s Autoclass and the conn ems a weird word here.	ected PD performs	Edito Autoclass,".
ACCEPT However,	IN PRINCIPLE. MARK_EV2 is me (TME2 for ⁻	•		3/4 SD. The timing is	SuggestedF "If the P classific Response ACCEP	Remedy PSE supports A cation,"	utoclass and the connect Response Status C	ed PD requests Aut	oclass during
states MA	RK_EV_LAST,	n the state MARK_EV2, or , MARK_EV_LAST_PRI or et V Mark . The timing spe	MARK_EV_LAS	T_SEC, the PSE shall	<i>Cl</i> 33 Yseboodt, L	SC 33.2.8 ennart	P 104 Philips	L 13	# 211
	SC 33.2.7.2	P 99 Philips	L 30	# 208	Comment T Addition wastage	nal info for Table	Comment Status A e 33-17, item 17, TRise is	s too long for this fie	Edito
SuggestedRer Sort Table Vo Cເ	sorting in Table nedy 33-15 in the fo ltages: VClass irrents: IClass_ ning: TReset, 1	Comment Status A 33-15 has become confus ollowing way: , VMark, VReset LIM, IMark_LIM, TClass, TClass_LCE, Tpdo	-			e following to 3 "TRise is refe R_ON state fror - Replace ad	3.2.8.1 erenced from 10 % to 90 n the beginning of POWE Iditional information field Response Status C	ER_UP."	erence at the PI in
Response ACCEPT.		Response Status C							

Editorial

Editorial

Editorial

C/ 33 SC 33.2.8.5.1		P 110	L 32	# 212
Yseboodt, Lennart		Philips		
Comment Ty	/pe ER	Comment Status A		Pres: Darshan1

"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 0.4A respectively. When a Type 4 PSE is connected to a single-signature PD with assigned Class 7 or Class 8 and uses a lower I Inrush than which is defined in Table 33-17, it shall successfully power up a single-signature PD comprised of a parallel combination of 360 mF and a Class 2 load within T Inrush-2p min without startup oscillations during the POWER_UP period, when connected to the PD through a channel resistance of 0.10hm to 12.50hm per pairset."

First two sentences are very repetitive.

SuggestedRemedy

Shorter:

"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 0.4A respectively. Such a PSE shall successfully power up a single-signature PD comprised of a parallel combination of 360 mF and a Class 2 load within T Inrush-2p min without startup oscillations during the POWER_UP period, when connected to the PD through a channel in the range of 0.1 ohm to Rch per pairset."

Response

Response Status C

ACCEPT IN PRINCIPLE.

OBE by 29.

C/ 33 SC 33.2.8.5.1			P 110	L 39	# 213
Yseboodt,	Lenna	rt	Philips		
Comment	Type	ER	Comment Status A		Pres: Darshan1

"A Type 4 PSE, when connected to a dual signature PD with assigned Class 5, may implement a minimum I Inrush and I Inrush-2P lower than defined in Table 33-17, but not less than 0.4A and 0.2A respectively. When a Type 4 PSE is connected to a dual-signature PD with assigned Class 5 and uses a lower I Inrush-2P than thosedefined in Table 33-17, it shall successfully power up a dual-signature PD comprised of a parallel combination of 110 mF and a Class 2 (TBD) load within T Inrush-2p min without startup oscillations during thePOWER_UP period, when connected to the PD through a channel resistance of 0.1ohm to 12.5ohm per pairset."

First two sentences are very repetitive.

SuggestedRemedy

Shorter:

"A Type 4 PSE, when connected to a dual signature PD with assigned Class 5, may implement a minimum I Inrush and I Inrush-2P lower than defined in Table 33-17, but not less than 0.4A and 0.2A respectively. Such a PSE shall successfully power up a dual-signature PD comprised of a parallel combination of 110 mF and a Class 2 (TBD) load within T Inrush-2p min without startup oscillations during the POWER_UP period, when connected to the PD through a channel resistance of 0.1ohm to Rch per pairset."

Response	Response Status	С
reoponoo	nesponse status	· ·

ACCEPT IN PRINCIPLE.

OBE by 29

C/ 33	SC	33.2.10	P 116	L 14	# 214
Yseboodt,	Lenna	rt	Philips		
Comment	Туре	ER	Comment Status A		Editorial
0	e 33-20 ad refer		e PSE monitor state diagrams."		

SuggestedRemedv

"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."

Response Response Status C

ACCEPT IN PRINCIPLE.

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

C/ 33 SC 33.3 Yseboodt, Lennart	.7.3 <i>P</i> 141 Philips	L 7	# 215	<i>CI</i> 33 Yseboodt,	SC 33.2.7.2 Lennart	P 99 Philips	L 20	# 217
Comment Type EF	Comment Status A		Pres: Yseboodt10	Comment	Type TR	Comment Status A		PSE Class
The PD inrush see text. It doesn`t see	ction is particularly troubleso em to improve.	me. How many time	s have we tweaked this	Ū		ation events may appear of	n one or both pairs	sets."
SuggestedRemedy Completely new to	ext, adopt yseboodt_10_0516	6_pdinrush.pdf			or single-signatu roblematic for Ty	re, not for dual. /pe 1 and Type 2 PSEs.		
Response ACCEPT IN PRIN	Response Status C CIPLE. 0_0516_pdinrush.pdf (v131)			- "4-pa - altern	ir" class events	at sentence was to allow: for single-sig PDs nts between pairsets cation games		
C/ 33 SC 33.3	.7 P 231	L 52	# 216		entences that dea to do all of this.	al with applying Vclass alre	eady say "to the Pl	l or pairset", granting
Yseboodt, Lennart	Philips			Suggested	Remedy			
Comment Type EF			Pres: Darshan12	We no	longer need the	quoted sentence. Remove	e it.	
verification to Equ	ce values for RPSE_max an ation (33-13) or control ICon tion and as such are left to t	-2P-unb value are d		Response ACCEI	PT IN PRINCIPL	Response Status C .E.		
PARSE	_ERROR.			Remov	ve this text:			
SuggestedRemedy		0		Classif	fication events m	nay appear on one or both	pairsets.	
Response	e to begin. What does this m Response Status C			And ac	dd the following t	ext to do_classification fur	oction after line 32	before "values":
ACCEPT IN PRIN	,					PSEs, when connected to ents may appear on one or		e PD, operating over 4-
Adopt darshan_12	2_0516.pdf			C/ 33 Yseboodt,	SC 33.2.5 Lennart	P 56 Philips	L 7	# 218
				Comment [®] Update	<i>Type</i> T es to the PSE St	Comment Status A ate Diagram		Pres: Yseboodt11
				Suggested Adopt		516_psestatedia.pdf		
				Response ACCEI		Response Status C		
				WFP				
				TFTD				

				. <u></u>			
C/ 33 SC 33.2.5.8	P 65	L 40	# 219	C/ 33 SC 33.		L 39	# 221
seboodt, Lennart	Philips			Yseboodt, Lennart	Philips		
Comment Type T	Comment Status A		PSE SD	Comment Type T	Comment Status A		Pres: Schindler
original text: "parameter_ 3: Type 3 PSE paramete	er values			original text: "Edit similar to pd_dll_	ors Note: Mutual identification v	will require a variabl	e pd_power_type
4: Type 4 PSE paramete	er values"			SuggestedRemedy			
are now using parameter We did this, because par	the PSE SM needs to be to PSE_TYPE.	DLL state mach		pd_power_type A control variable indicates the Typ Values: 1: PD is a Type 1		Physical Link Layer	
Values: 3: Type 3 PSE 4: Type 4 PSE"				Response ACCEPT IN PRIM	Response Status C NCIPLE.		
Response ACCEPT IN PRINCIPLE	Response Status C			Remove Editor's	note.		
OBE by 83				Cl 33 SC 33.2 Yseboodt, Lennart	2.5.10 P 75 Philips	L 31	# 222
TFTD, YD, DS				Comment Type T	Comment Status A		PSE SI
C/ 33 SC 33.2.5.9 Yseboodt, Lennart	P 68 Philips	L 12	# 220	33.2.5.10.	te diagram does not use or nee	ed a tpdc_timer, but	it is defined in
	•			SuggestedRemedy	<i>.</i>		
<i>Comment Type</i> T highest 2p is written with	Comment Status A		Editorial	• –	er from 33.2.5.10		
0 = 1	i a sinali letter p.			Response	Response Status C		
SuggestedRemedy Change to highest_2P.				ACCEPT.			
Response ACCEPT.	Response Status C						

						•	
C/ 33 SC 33.2.5.12 Yseboodt, Lennart	P 79 Philips	<i>L</i> 1	# 223	C/ 33 SC 33.2.7 Yseboodt, Lennart	7 P 95 Philips	L 25	# 225
Comment Type T	Comment Status A		Pres: Yseboodt6	Comment Type T	Comment Status A	the correspondi	Autoclass
I have not found any mer	ion * (mr_pse) can be ar ntion of a defined order of c t this is not a universal trutl	operation. Conver	ntion is for AND to take	minimum of 4.0 Wa SuggestedRemedy		the corresponding	ig PD Class and a
SuggestedRemedy Use brackets whenever a					I Class to be completely clear. maximum value defined in Table of 4.0 Watts."	e 33-11 of the Cl	ass assigned to the
pse_reset + (error_condit Response ACCEPT IN PRINCIPLE.	Response Status C			Response ACCEPT.	Response Status C		
	· error_condition) * (mr_pse	e_enable = enable	e).	CI 33 SC 33.2.7 Yseboodt, Lennart	P 96 Philips	L 29	# 226
I don't believe your interp	pretation is correct.			Comment Type T	Comment Status A		PSE Class
Why do we have mr_pse	nable has to be true, so it s _enable have enumerated		, ,		D equivalent of Table 33-13 in th ation. The same is true in the PS le table.		cause the text already
TFTD				Remove Table 33-1	3.		
SuggestedRemedy Add condition: "tme2_tim Response	P 86 Philips Comment Status A ARK_EV_LAST to C1 has her_done". Response Status C	L 52	# <u>224</u> PSE SD	"Subsequent to suc using at least one o Event Physical Laye Physical Layer class Subsequent to succ classification using classification; or Mu classification. Both	page 97, line 4-12 as follows: cessful detection, all Type 2 PSI f the following: Multiple-Event PI er classification and Data Link La sification and Data Link Layer cla cessful detection, all Type 3 and at least one of the following: Mul ultiple-Event Physical Layer class pairsets attached to a dual-signa nat will deliver 4-pair power."	hysical Layer cla ayer classification assification. Type 4 PSEs *** Itiple-Event Phys sification and Da	ssification; Multiple- n; or Single-Event 'shall*** perform sical Layer ta Link Layer
ACCEPT.				Response ACCEPT.	Response Status C		
				TFTD, YD			

Yseboodt, Lenna	rt	Philips		# 227	Yseboodt, L	ennart		Philips		
,		•			,			•		
Comment Type	T	Comment Status A		Pres: Darshan1	Comment T		T	Comment Status A		PSE MP
a lower IInrus signature PD within TInrus connected to	sh-2P than comprised h-2p min w the PD thr	connected to a dual-signatu those defined in Table 33-1 of a parallel combination of ithout startup oscillations du ough a channel resistance of his requirement applies per	7, it shall succes 110 uF and a C ring the POWEI f 0.1ohm to 12.	ssfully power up a dual- Class 2 (TBD) load R_UP period, when	than or as defin This for Type	equal t ied in T s final s e 3 and	to Í Hold-2 Fable 33-1 Shall is inc I Type 4.	SE: - shall not remove pow P max continuously for at 7." onsistenly worded compar- 116_DC_MPS_Template_	east T MPS even	y T MPS + T MPDO , remove power" shalls
SuggestedRemed	dv				SuggestedF					
Replace by:					Replace	-				
"Wł and uses a lo	ower IInrush	4 PSE is connected to a du n-2P than those defined in T	able 33-17, it sh	nall successfully power	"- sł	nalĺ not	t remove p PDO windo	ower from the PI when DC	MPS has been	present within the
		comprised of a parallel com ** within TInrush-2p min witl			Response			Response Status C		
		en connected to the PD thro			ACCEP	Т.				
12.50hm per			0		Yair to r	oviow				
Response		Response Status C				eview.				
ACCEPT IN I	PRINCIPLE				۲FTD, ۱	ΥD				
OBE by 29										
CI 33 SC Yseboodt, Lenna	33.2.8.7 rt	<i>P</i> 111 Philips	L 14	# 228						
Comment Type	т	Comment Status R		Pres: Yseboodt4						
"When conne	oth pairset	ingle-signature PD, a Type s before the current exceeds								
SuggestedRemed	dy									
See/adopt ys	seboodt_04	_0516_pse4p.pdf								
Response REJECT.		Response Status C								
Vote to adopt	t page 6 of	yseboodt_04_0516_pse4p	pdf:							
Yes: 11 No: 8 Abstain: 3										

PSF MPS

TETD

CI 33	SC 33.2.10.1.2	P 118	L 40	# 230
Yseboodt, L	ennart	Philips		

Comment Status D

"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 single-signature PD: -shall not remove power from the PI 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 ."

These shalls are essentially meaningless. PSEs may remove power for any reason. The PSE shall remove power in the case of overcurrent, or Vport-2P being out of spec.

This is to protect against bad MPS implementations that remove power when they shouln`t.

SuggestedRemedy

Comment Type T

Add a condition 'unless there is a non-MPS related reason to do so':

"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." (Note: merge the above with the other comment that touches this if adopted).

"A Type 3 or Type 4 PSE, when connected to a single-signature PD: -shall not remove power from the PI, unless there is a non-MPS related reason to do so, 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, unless there is a non-MPS related reason to do so, when DC MPS has been present on both pairsets every T MPS + T MPDO ."

Proposed Response Response Status Z REJECT.

This comment was WITHDRAWN by the commenter.

I understand the idea, but the wording is terrible. Also, .3at did not include this language, do we need to?

How about, "...shall not remove power due to MPS absence when..."

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 33.2.10.1.2	P1	19	L 19	# 231
Yseboodt,	Lennart	Philip	s		
Comment	Туре Т	Comment Status	Α		PSE MPS
		, when connected as been present or			may maintain power S + T MPDO."
ls	inconsistent in des	cribing the timing r	equiren	nents.	
Suggested	IRemedy				
	maintain power on _ the T MPS + T I	a pairset _when_ MPDO _window"	DC MP	S has been prese	ent on that pairset
Response		Response Status	С		
ACCE	PT IN PRINCIPLE				
Make	similar change to l	ne 17.			
TFTD,	YD				
C/ 33	SC 33.3.3	P 1	21	L 13	# 232
Yseboodt,	Lennart	Philip	S		
Comment Update	<i>Type</i> T es to the PD State	<i>Comment Status</i> Diagram	D		Pres: Yseboodt12
Suggested	IRemedy				
Adopt	yseboodt_12_051	6_pdstatedia.pdf			
Proposed REJE	•	Response Status	Z		
This c	omment was WITH	IDRAWN by the co	mment	er.	
WFP					
TFTD					

Comment ID 232

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C/ 33 SC 33.3.6 Yseboodt, Lennart	P 137 Philips	L 1	# 233	C/ 33 SC : Yseboodt, Lennart	33.3.7.6	P 145 Philips	L 11	# 235
Layer classification h	Comment Status A pse_power_level is 3. After a has completed the pse_power_	level is set to eit	her 3, 4, 6, or 8. After a	The PD transion merged and the	ents section co le differences	omment Status A ontains many duplicate captured in a Table.	requirement text	Pres: Yseboodt blocks which can be
either 1, 2, 3 or 4."	Layer classification has comp	leted, the pse_p	ower_level is set to	SuggestedRemed		<i>u</i>		
	impossible.			Adopt yseboo				
SuggestedRemedy Change last sentence "After a suc	e to: ccessful Data Link Layer classi	fication has com	pleted. the	Response ACCEPT IN P		sponse Status C		
pse_power_level is s Response	et to either 3, 4, 6 or 8." Response Status C		,	1. ITRLIM bee	comes ITRLIM	dtransient.pdf with the f -2P. M is used in the text.	ollowing changes	3:
ACCEPT.				If only Tables	felt the same v	vay about you		
C/ 33 SC 33.3.7 Yseboodt, Lennart	P 138 Philips	L 29	# 234	C/ 33 SC : Yseboodt, Lennart	33.4.9.1.5	P 161 Philips	L 26	# 236
	Comment Status A and 9 say "single-signature PD	only" and "dual-	<i>Editorial</i> signature PD only"		T Co	omment Status A		AE
SuggestedRemedy Remove the word 'on	nlv'.			33.4	9.1.5 Maximu	m link delay says "The	propagation dela	av contribution of the
Response ACCEPT.	Response Status C					ot exceed 2.5 ns from 1		
						m link delay skew says Ill not exceed 1.25 ns fr		
				The should say so		s the same, with difference w?	nt value, and it se	eems that 33.4.9.1.6
				SuggestedRemed TFTD	/ is correct ?			
				Response ACCEPT IN P	Re	sponse Status C		
				Change 33.4.9	9.1.6 to:			
						m link delay skew says ot exceed 1.25 ns from		
YPE: TR/technical requi	ired ER/editorial required GR	anneral required	T/technical E/editorial G/	general		Comm	ent ID 236	Page 61 of 67

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 236

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Cl 79 SC T	79.3.2.6a.2	P 207 Philips	L 37	# 237		C/ 79 Yseboodt, I	SC 79.3.2.6 Lennart	b.3	P 208 Philips	L 3 1	# 238
Comment Type	т	Comment Status A			LLDP	Comment 1	Гуре Т	Comment	t Status A		LLDP
['] "Th 33.2.6. A TLV	e power clas generated	d is described as: ss field shall contain an ir by a PD shall set the field	d to 0000."			evolutio	ons we made in e. It can howev	defining sing	le and dual sig	nature PDs, this	Given the recent bit no longer serves any -signature PDs in a
This seems logical		ly if it should be assigned	l or requested Cl	ass. Assigned C	lass	Suggestedl	Remedy				
SuggestedRemed - Remove the - Ch "The	y underline a ange to rea power clas fined in 33.	nd strikethrough d: is field shall contain an in 2.6. A TLV generated by <i>Response Status</i> C				- Chan "1 = PE 0 = PE - Chan "This fi	D requested pov ge text in 79.3.2 eld shall be set ting power whe	n 2 in Table 75 wer applies to wer applies to 2.6b.3 to read according to	9-6b to read: Mode A pairse Mode B pairse : Table 79-6b to	t" select the Mode	for which the PD is to 0 when the power
ACCEPT.						Response		Response	Status C		
						ACCEF	PT IN PRINCIP	LE.			
						- Chan "1 = PE 0 = PE - Creat "This fi	ge value of item D requested pov D requested pov e section 79.3.2 eld shall be set	n 0 in Table 75 wer applies to wer applies to 2.6b.5 to read according to	Mode A pairse Mode B pairse : Table 79-6b to	t t" select the Mode	for which the PD is to 0 when the power

,	SC 33.2.5.9 _ennart	P 68 Philips	L 17	# 239	C/ 33 Yseboodt,	SC 33.2.7 Lennart	P 94 Philips	L 33	# 241
Comment T	ype TR	Comment Status A		PSE SD	Comment	Type TR	Comment Status A		PSE Class
"mps_s sum of l	A variable in	dicating that the PSE uses th oth pairsets to determine if th	e method consis e DC MPS comp	ting of measuring the onent is present."			a higher Class than a Ty 3, 4, or 6, whichever is th		
						Doesn`t take	e dual-signature PDs into	account.	
signatur		ot highlight that mps_sum ma	y only be TRUE	in case of a single-	Suggested	•			
SuggestedF	Remedy						ure PD requests a higher ons the PD Class 3, 4, or		
	A variable in IPORT-2P of bo	dicating that the PSE uses th oth pairsets to determine if th	e DC MPS comp	onent is present.	suppor	rt. When a dual-	signature PD requests a assigns the PD Class 3 c	higher Class than a	Type 3 or Type 4 PSE
•	um may only be	set to TRUE when connected	d to a single-sign	ature PD."	Response		Response Status C		
Response ACCEP	т	Response Status C			ACCE	PT.			
ACCEP	1 .				C/ 33	SC 33.2.7	P 96	L 13	# 242
C/ 33	SC 33.2.5.9	P 85	L 35	# 240	Yseboodt,	Lennart	Philips		
Yseboodt, L		Philips			Comment	Type TR	Comment Status A		Editoria
Comment T		Comment Status A		Pres: Yseboodt7	Table	33-12 uses two	dashes in the first colum	n, rows 4 and 5.	
		S state diagram last cycle. tt for single-signature, but doe S.	es not address de	ual-signature, which	Suggested Replac	<i>IRemedy</i> ce dash by the w	vord 'to'.		
					Deenenee		Response Status C		
SuggestedF	Remedy				Response				
00	Remedy vseboodt_07_05	i16_dsmps.pdf			ACCE	PT.	Response Status		
Adopt y Response	,	Response Status C				SC 33.2.7.1	P 97 Philips	L 32	# 243
Response	vseboodt_07_05	Response Status C			ACCEI C/ 33 Yseboodt, Comment "All me	SC 33.2.7.1 Lennart <i>Type</i> TR	P 97	-	PSE Class
Adopt y Response ACCEP	vseboodt_07_05	Response Status C			ACCEI C/ 33 Yseboodt, Comment "All me	SC 33.2.7.1 Lennart <i>Type</i> TR easurements of le 33-15."	P 97 Philips Comment Status A	-	PSE Class
Adopt y Response ACCEP	vseboodt_07_05	Response Status C			ACCEI C/ 33 Yseboodt, Comment "All me	SC 33.2.7.1 Lennart <i>Type</i> TR easurements of I le 33-15." We now hav	P 97 Philips <i>Comment Status</i> A I Class shall be taken aft	-	PSE Class
Adopt y Response ACCEP	vseboodt_07_05	Response Status C			C/ 33 Yseboodt, Comment "All me in Tabl	SC 33.2.7.1 Lennart <i>Type</i> TR easurements of I le 33-15." We now hav <i>IRemedy</i>	P 97 Philips <i>Comment Status</i> A I Class shall be taken aft	er the minimum rele	PSE Class
Adopt y Response ACCEP	vseboodt_07_05	Response Status C			C/ 33 Yseboodt, Comment "All me in Tabl	SC 33.2.7.1 Lennart <i>Type</i> TR easurements of I le 33-15." We now hav <i>IRemedy</i>	P 97 Philips <i>Comment Status</i> A I Class shall be taken aft re T_Class for this.	er the minimum rele	PSE Class
Adopt y Response ACCEP	vseboodt_07_05	Response Status C			C/ 33 Yseboodt, Comment "All me Suggested "All me	SC 33.2.7.1 Lennart <i>Type</i> TR easurements of I le 33-15." We now hav <i>IRemedy</i> easurements of I	P 97 Philips <i>Comment Status</i> A I Class shall be taken aft re T_Class for this.	er the minimum rele	PSE Class

SC 33.2.7.2 P 97 L 41 # 244 Yseboodt, Lennart Philips Comment Type **TR** Comment Status A Pres: Ysebood The specification of Autoclass in the Multiple-event section can be improved. SuggestedRemedy Adopt yseboodt_08_0516_autoclass4.pdf Response Response Status C ACCEPT. SC 33.2.7.2 P 99 L 11 # 245 Yseboodt, Lennart Philips Comment Type **TR** Comment Status A PSF Cla "If the PSE returns to the IDLE state, it shall maintain the PI voltage at VClass for a period of at least TReset min before starting a new detection cycle."

- VClass should be VReset

- Also, that same requirement holds for PSEs that are in the CLASS_RESET

SuggestedRemedy

states.

"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."

- 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 PSE shall provide to the PI V Reset, subject to the T Reset timing specification."

Response

C/ 33

C/ 33

Response Status C

ACCEPT IN PRINCIPLE.

List CLASS_RESET states explicitely as there are other states with RESET in the name and it may be confusing.

TFTD, YD

CI 33	SC 33.2.7.3	P 101	L 13	# 246
Yseboodt, Le	ennart	Philips		
Comment Ty	vpe TR	Comment Status A		Autoclass
		UTO_PSE2 timing is referent ARAMETERS state to the P		
	SET_PARAM	ETERS state no longer exis	sts.	
SuggestedRe	emedy			
		UTO_PSE2 timing is referent e POWER_ON state."	nced from the trai	nsition of the
Response		Response Status C		
ACCEPT	Г.			
	SC 33.2.8.4	P 106	L 25	# 247
C/ 33	00 33.2.0.4		L 23	# 247
CI 33 Yseboodt, Le		Philips	L 23	π 241
	ennart		L 23	
Yseboodt, Le Comment Ty	ennart vpe TR	Philips		Pres: Yseboodt2
Yseboodt, Le Comment Ty	ennart vpe TR re several incon	Philips Comment Status A		Pres: Yseboodt2
Yseboodt, Le Comment Ty There an SuggestedRe	ennart vpe TR re several incon	Philips Comment Status A sistencies/errors identified in		Pres: Yseboodt2
Yseboodt, Le Comment Ty There an SuggestedRe	ennart vpe TR e several incon emedy	Philips Comment Status A sistencies/errors identified in		Pres: Yseboodt2

WFP

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

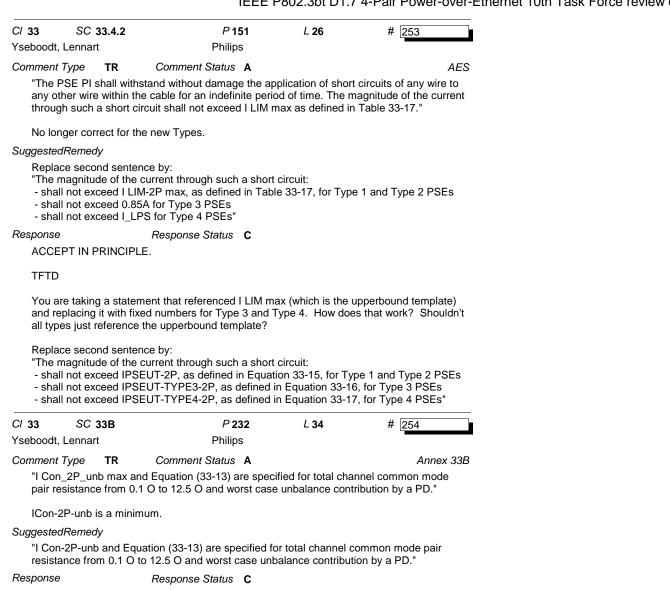
TFTD

Philips Comment Status A s, connected to a single-signa DC MPS component is either quirements should not overla	r PRESENT, AB	
s, connected to a single-signa DC MPS component is either equirements should not overla	r PRESENT, AB	are 2 'shalls' and a
DC MPS component is either equirements should not overla	r PRESENT, AB	
e time.	ap, ie, only one o	
Iport-2P currents are 1mA ar I.	nd 6mA respecti	ively, the first 'shall'
ne two shall statements need	to be made mo	are parrow
eeds to become and 'and ['] : id" on page 118, line 46	3 or Type 4 PSE	E, when connected to a
Response Status C		
	e Iport-2P currents are 1mA a IT. It however is also True, indica the two shall statements need shall statements for "A Type leeds to become and 'and': nd" on page 118, line 46 nd" on page 118, line 49	the two shall statements need to be made mo shall statements for "A Type 3 or Type 4 PSI needs to become and 'and': nd" on page 118, line 46 nd" on page 118, line 49 <i>Response Status</i> C

Implement suggested remedy and...

Add "Note--The DC MPS requirements for Type 3 and Type 4 PSEs when connected to a single-signature PD are such that the PSE may measure either the total current (Ihold) or the current on the pairset with the highest current (Ihold-2p)." on page 118, line 54.

C/ 33 S Yseboodt, Lenr	C 33.3.4	P 131 Philips	L 1	# 250	C/ 33 Yseboodt,	SC 33.3.8 Lennart	P 149 Philips	L 29	# 252
Comment Type TR Comment Status A Pres: Yseboodt3 A PD is either a single-, or a dual-signature device. The determination of single/dual impacts nearly every requirement. 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.					Comment Type TR Comment Status A PD MPS "NOTEPDs may not be able to meet the IPort_MPS 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." PD MPS				
SuggestedRemedy Adopt yseboodt_03_0516_pdsig.pdf Response Response Status C ACCEPT IN PRINCIPLE. Adopt yseboodt_03_0516_pdsig.pdf (v130)					We also need to mention IPort-MPS-2P for dual-signature PDs. SuggestedRemedy "NOTEPDs 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."				
TFTD CI 33 S Yseboodt, Lenr	C 33.3.4	P 131 Philips	L 9	# 251	Response Response Status C ACCEPT IN PRINCIPLE. Implement suggested remedy but change Vport_PSE to Vport_PSE-2P.				
Figure 33-3 SuggestedRen Change to:	PD presents 32." <i>nedy</i> :	Comment Status A a non-valid detection signate	ure when in a m	PD Detection ark event state per					
Response ACCEPT II We have d Change to:	N PRINCIPL lifferent PD \$: "A Type 2,	Response Status C E.							



ACCEPT.

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