C/ 00 SC 0 Anslow, Pete	<i>P</i> Ciena	L	# 1	C/ 30 SC 30.12 Anslow, Pete	2.1.18a	<i>P</i> 37 Ciena	L 22	# 3
Comment Type ER In general, for amenc included. Understanding that for	Comment Status D led clauses, only the text of so or Clause 33, the Task Force apply to other amended clau	has decided to r	0 0	Comment Type E Adding 30.12.2.1.18 should be modified Similarly for 30.12.3 SuggestedRemedy	3a, 30.12.2.1.18 with new rows.			<i>Managemen</i> neans that Table 30-7 18d
SuggestedRemedy				Show additions to T	able 30-7 for n	ew subclauses.		
and for all amended of being changed. For Clause 25 this inv Leave heading for 25	.4 but remove text	nd remove all su		Proposed Response Where is Table 30- TFTD	Respons	e Status W		
Change editing instru "section")	I content for 25.4.1 through 25 ction to: "Change text of 25.4	.5 as follows:" (v	ve do not use the term	<i>Cl</i> 33 <i>SC</i> 33.2.8 Beia, Christian		P 102 STMicroelect	L 32 ronics	# 4
Below heading for 25	l content for 25.4.5.1 through .4.7 add editing instruction: "C I content for 25.4.5.1 through	Change text of 2		Comment Type ER Table 33-17, Item6 Icon-2P-unb is relev		nt Status D		PSE Powe
PROPOSED ACCEPT IN PRINCIPLE. 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 unchanged subsection to be removed before D2.0.				SuggestedRemedy Add "Single Signature PD" on each line of Item6, column Parameter, before the Class. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.				
we believe changes v	vill be made to them or that th	ey are necessa		Proposed Response	Respons	e Status W	olumn Parametei	r, before the Class.
we believe changes v unchanged subsectio	vill be made to them or that th	ey are necessa		Proposed Response PROPOSED ACCE	Respons PT IN PRINCII	e Status W PLE.		r, before the Class. ding unbalance effect"
we believe changes w unchanged subsection C/ 00 SC 0	vill be made to them or that the n to be removed before D2.0.	ey are necessa	ry for review. Any	Proposed Response PROPOSED ACCE Change parameter	Respons PT IN PRINCI description for	e Status W PLE. Item 6 from "Pair	set current includ	ding unbalance effect"
we believe changes we unchanged subsection CI 00 SC 0 Anslow, Pete Comment Type ER Not all changes in the SuggestedRemedy	vill be made to them or that th in to be removed before D2.0. <i>P</i> Ciena <i>Comment Status</i> D e draft have an associated ed	L ting instruction	ry for review. Any # 2 Editorial	Proposed Response PROPOSED ACCE	Respons PT IN PRINCII description for neluding unblar .1.2	e Status W PLE. Item 6 from "Pair	set current incluc owering single-s L 11	ding unbalance effect"
we believe changes we unchanged subsection Cl 00 SC 0 Anslow, Pete Comment Type ER Not all changes in the SuggestedRemedy Go through the draft of This includes at least Proposed Response	vill be made to them or that then to be removed before D2.0. P Ciena Comment Status D e draft have an associated ed making sure that all changes 33A.5, Annex 33B, Annex 33 Response Status W	L ting instruction	ry for review. Any # [2 <i>Editorial</i>	Proposed Response PROPOSED ACCE Change parameter to "Pairset current in Cl 33 SC 33.4.1 Beia, Christian Comment Type TR In order to successi	Respons PT IN PRINCII description for ncluding unblar .1.2 Commen fully detect DS witch the more	e Status W PLE. Item 6 from "Pair nce effect when p P151 STMicroelect nt Status D PDs with a comm negative conduct	set current incluc owering single-s <i>L</i> 11 ronics non ground, PSE or at least. This	ding unbalance effect" ignature PDs" # [<u>5</u>
we believe changes we unchanged subsection <i>Cl</i> 00 SC 0 Anslow, Pete <i>Comment Type</i> ER Not all changes in the <i>SuggestedRemedy</i> Go through the draft of the subsection o	vill be made to them or that then to be removed before D2.0. P Ciena Comment Status D e draft have an associated ed making sure that all changes 33A.5, Annex 33B, Annex 33 Response Status W	L ting instruction	ry for review. Any # [2 <i>Editorial</i>	Proposed Response PROPOSED ACCE Change parameter to "Pairset current in Cl 33 SC 33.4.1 Beia, Christian Comment Type TR In order to success operation have to so for Environment A F SuggestedRemedy	Respons PT IN PRINCII description for ncluding unblar .1.2 Commen ully detect DS witch the more 'SEs, but not fo	e Status W PLE. Item 6 from "Pair nce effect when p P151 STMicroelect nt Status D PDs with a comm negative conduct or Environment B	set current includ owering single-s <i>L</i> 11 ronics non ground, PSE or at least. This	ding unbalance effect" ignature PDs" # 5 AES is that support 4-pair is already specificed
we believe changes we unchanged subsection C/ 00 SC 0 Anslow, Pete Comment Type ER Not all changes in the SuggestedRemedy Go through the draft of This includes at least Proposed Response	vill be made to them or that then to be removed before D2.0. P Ciena Comment Status D e draft have an associated ed making sure that all changes 33A.5, Annex 33B, Annex 33 Response Status W	L ting instruction	ry for review. Any # [2 <i>Editorial</i>	Proposed Response PROPOSED ACCE Change parameter to "Pairset current in Cl 33 SC 33.4.1 Beia, Christian Comment Type TR In order to successi operation have to su for Environment A F	Respons PT IN PRINCII description for ncluding unblar .1.2 	e Status W PLE. Item 6 from "Pair nce effect when p P151 STMicroelect nt Status D PDs with a comm negative conduct or Environment B 33.4.1.1.2 the fo	set current includ owering single-s <i>L</i> 11 ronics non ground, PSE or at least. This	ding unbalance effect" ignature PDs" # <u>5</u> <i>AES</i> is that support 4-pair is already specificed

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

Page 1 of 61 5/4/2016 1:29:31 PM

C/ 33 SC 33.2.8.7 P 1 Beia, Christian STM	11 L 14 croelectronics	# 6	<i>Cl</i> 33 Beia, Christ	SC 33.2.8.2 tian	P 106 STMicroel	L 12 ectronics	# 7
Comment Type TR Comment Status The following sentence, When connected to a single-signature PD, power from both pairsets before the curren	a Type 3 or Type 4 PSE		Comment 7 The res is miss	solution of com	Comment Status D ment 324 of Draft1.6 was o	only partially implen	PSE Power nented, and some text
either pairset. has severel weak points: - the (TBD) to be removed			<i>Suggestedl</i> Replac The mit	e:	ut capacitance CPort min o	r CPort-2P min defi	ined in Table 33–28,
 the "should" makes nobody happy: those failure working on single pairset would igno power to be removed from both pairsets do - the timing requirements for power removal 	e a reccomendation, ar n't have the assurance i	nd those who want the trill be implemented.		a PD to operat less than 30 µ:	e for input voltage transient s.	ts which cause VPE	0 to drop as low as 0 V,
The main goal here should be avoiding tha powered on 2-pairs would exceed the curre potentially overstressing the magnetics.			allows	PDs of any Typ 0V lasting less	ut capacitance CPort min o be to operate for input volta than 30µs as specified in 3 <i>Response Status</i> W	ge transients which	
of thesecond pairset is below one-half of th	So, the requirement should allow the PSE to disconnect only one pairset only if the current of thesecond pairset is below one-half of the assigned power (i.e. the current that was originally supposed to flow in that pairset). It ensures that the PD is still keeping control of its own current, and no damage occurred.				T IN PRINCIPLE.		
See also Darshan_05			Replac	e:			
SuggestedRemedy Replace: When connected to a single-signature PD, power from both pairsets before the curren either pairset.			allows		ut capacitance Cport min o e for input voltage transient s.		
With: When connected to a single-signature PD, from one pairset and maintain power on the is below one half of the assigned Pclass (0	other pairset only if the		allows	PDs to operate	ut capacitance Cport min c for input voltage transients as specified in 33.3.7.6.		
Proposed Response Response Status WFP	W						
TFTD							
TYPE: TR/technical required ER/editorial requi COMMENT STATUS: D/dispatched A/accepte SORT ORDER: Comment ID				Z/withdrawn	Con	nment ID 7	Page 2 of 61 5/4/2016 1:29:

C/ 33 SC 33.3.7.3	P 142	L 2	# 8	C/ 33 SC 33.3.7.4	P 142	L 27	# 10
Bennett, Ken	Sifos Technolo	gies, In		Bennett, Ken	Sifos Technol	ogies, In	
Comment Type E Figure 33-37 is an Inrus	<i>Comment Status</i> D sh section figure, but it appea	s within the P	<i>Editorial</i> beak_PD section	Comment Type ER "Iport" is defined as th	Comment Status D le RMS current in this section.		PD Powe
SuggestedRemedy Place the figure within	the Inrush section				now used extensively in the sta definition. (Including instantane		
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			The RMS Current def instances of Iport.	inition should be apparent in th	e symbol to dist	tinguish it from other
	sn't room on the previous page ure is properly placed in Fram		moved it to the next.				
C/ 33 SC 33.2.1	P 47	L 10	# 9	SuggestedRemedy In section 33.3.7.4,			
Bennett, Ken	Sifos Technolo	gies, In		III Section 55.5.7.4,			
Comment Type ER	Comment Status D		PSE Types	Change Iport to Iport	RMS and change Iportmax to Ip	oortRMSmax	
	n header states "Range of max mn are not ranges; they only s			Proposed Response PROPOSED ACCEP	Response Status W		
SuggestedRemedy							
Change the column he "Maximum Class Supp							
Proposed Response	Response Status W						
PROPOSED ACCEPT	IN PRINCIPLE.						
OBE by 137							
We wanted to make su as a Type 3, class 3 PS	ire that you could build a PSE SE for example	that was not li	sted in that table such				

C/ 33 SC 33.3.7.2.1 F	P140 L36	# 11	CI 33	SC 33.3.7.4	P 142	L 22	# 12
Bennett, Ken Sife	os Technologies, In		Bennett, Ker		Sifos Techno	Sifos Technologies, In	
Comment Type TR Comment State	us X	PD Power	Comment Ty	pe TR	Comment Status D		PD Powe
Until recently, Pport_PD only existed in 3 symbols for the input average power in T. The definitions of the Pport_PD and Ppor conflict with the average power variables (fixed) Vport_PD_2P value which is incor with power variations in the PD (due to ch Section 33.3.7.2.1 also doesn't seem to r Average Power, and is entitled: "System Stability Test Conditions During The content states Pport_PD and Pport_ There IS no test condition mentioned. Pp	able 33-28 and in 33.3. rt_PD_2P variables in S in the PClass_PD spec rect; The PD input Volta hannel resistance). make sense. It is a sub Start-up and Steady St PD_2P "shall be define	The statement below, which is in the Peak Power section, "allows" an RMS current. Its limit in equation 33-26 is based upon average power and a fixed voltage, which is inconsistent with Ppeak_PD. It's not clear that the "Allowed" RMS current still must meet the Ppeak_PD requirement. Existing text: "Ripple current content (IPort_ac) superimposed on the DC current level (IPort_dc) "IS ALLOWED" if the total input power is less than or equal to PClass_PD max, or PClass at the PSE PI for Class 6 and Class 8 PDs." SuggestedRemedy Insert the quoted text as shown: Ripple current content (IPort_ac) superimposed on the DC current level (IPort_dc) is allowed if "Ppeak_PD requirements are met" and the total input power is less than or equal					
existing (.at) standard.	Proposed Re	- /	r PClass at the PSE PI for Class Response Status W		0 F D S.		
Section 33.3.7.2.1 should be deleted. Alte average power in table 33-28.	ernatively, different sym	nbols should be used for	,	SED ACCEP	'		
SuggestedRemedy			CI 33	SC 33.3.7.1	0 P 147	L 26	# 13
Delete section 33.3.7.2.1.			Bennett, Ker		Sifos Techno	ologies, In	
OR Change Pport_PD and Pport_PD_2P in t	able 33-28 to Pavg_PD	and Pavg_PD_2P.	Comment Ty	pe TR	Comment Status X		Pres: Bennet
Proposed Response Response Statu TFTD Does this affect anything I am not seeing	us W	<u> </u>	requirem within th	ents must be ranges mer	ohs are ambiguous. It's not cl e met for a single set of RSou ntioned, or if ICon_2P_unb, IC SE_2P ranges.	rce and Vport_PS	SE values that fall
		The requirements for ICon apply to the full Rsource and Vport ranges, which correspond to compliant ranges of PSE and Channel characteristics. (PDs can fail Icon_unb at short or long channels, and at any length for extended power.)					
			SuggestedR	emedy			
			See ben	nett_1_0516.	pdf		
			Proposed Re WFP	esponse	Response Status W		
			TFTD				

CI 33 SC 33.2.5.12	P 89 L 48	# 14	C/ 33 SC 33.2.7.2		L 50	# 16
Darshan, Yair N	<i>l</i> icrosemi		Darshan, Yair	Microsemi		
Comment Type E Comment Sta In comment 202 from D.16 regarding o At the response, the comment editor w "As of right now, we have multiple optic	verload. rote:	PSE SD w do we want to handle	SuggestedRemedy	Comment Status D and 7 use the same number (6).		Editoria
those cases?" This should be converted to editor note The above was meant to increase PSE		up.	To renumber Table 3 Proposed Response PROPOSED ACCEF	Response Status W		
SuggestedRemedy						
Add the following Editor Note at the energy Editor Note: "We have multiple optiona		to we want to handle	OBE by 209			
those cases?" Proposed Response Response Sta			Cl 33 SC 33.2.8. 4 Darshan, Yair	4 <i>P</i> 106 Microsemi	L 28	# 17
PROPOSED ACCEPT IN PRINCIPLE.	aus vv		Comment Type ER	Comment Status D		Editoria
Why don't we just make a decision dur	ing this meeting about how	those will be handled.	"IPort-2P and IPort-2	D1.6 was not implemented corr P-other are the currents on the	pairs with the sa	
			•	ned in Equation (33–5) **in and*	** Equation (33–	6).
C/ 33 SC 33.2.5.10	P73 L44	# 15	SuggestedRemedy			
Comment Type ER Comment St		PSE SD		P-other are the currents on the ned in Equation (33–5) and in Equation		
Missing link to Table 33-7 in the followi "tcc timer	ng text:		Proposed Response	Response Status W		
A timer used to monitor the duration of	Connection Check."		PROPOSED ACCEF	т.		
SuggestedRemedy						
Change from: "tcc_timer A timer used to monitor the duration of	Connection Check."					
To: "tcc_timer A timer used to monitor the duration of	Connection Check. See Ta	ble 33–7."				
Proposed Response Response Sta	atus W					
See 107.						
TETD						

TFTD

C/ 33 SC 33.3.3.10 P 129 L 41 # 18 Darshan, Yair Microsemi	C/ 33 SC 33.4.9.2 Darshan, Yair	P 162 Microsemi	L 30	# 20
Comment Type ER Comment Status D PD SD	Comment Type ER	Comment Status D		Editoria
Title of figure 33-33 need to be 33-2		required anymore. All the neo	cessary paramete	ers were defined.
SuggestedRemedy Change fig number to 33-2	SuggestedRemedy Delete Editor Note.			
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response PROPOSED ACCEPT.	Response Status W		
Change figure number to "33-32" as its "continued"	CI 33 SC Annex B	P 232	L 28	# 21
Replace "The PD shall provide the behavior of the state diagram shown in Figure 33-32."	Darshan, Yair	Microsemi		
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 In the text: "Verification of ICon-2P in conformance to this	Comment Status D 2_unb in step 6 and 7 confirm specification."	is PSE RPSE_m	Annex 33B ax and RPSE_min are
Change all figure numbering after 33-32 to match.	replace "PSE" with "that	ıt"		
Cl 33 SC P L # 19 Darshan, Yair Microsemi	SuggestedRemedy Change to: "Verification of ICon-2P in conformance to this s	2_unb in step 6 and 7 confirm	is that RPSE_ma	ax and RPSE_min are
Comment Type ER Comment Status D Editorial For the next draft, it is preferred to show the new editorial marks (insertions and deletions)	Proposed Response PROPOSED ACCEPT.	Response Status W		
in addition to the changing bars. It helps to see the changes without the need to compare two documents.				
in addition to the changing bars. It helps to see the changes without the need to compare two documents.	Cl 33 SC 33.2.8	P 105	L 44	# 22
in addition to the changing bars. It helps to see the changes without the need to compare two documents.	C/ 33 SC 33.2.8 Darshan, Yair	P 105 Microsemi	L 44	# 22
in addition to the changing bars. It helps to see the changes without the need to compare two documents. SuggestedRemedy	Darshan, Yair Comment Type T	Microsemi Comment Status D	L 44	
in addition to the changing bars. It helps to see the changes without the need to compare two documents. SuggestedRemedy For next Drafts: show the new editorial marks (insertions and deletions) in addition to the changing bars. Proposed Response Response Status Z	Darshan, Yair Comment Type T	Microsemi	L 44	
in addition to the changing bars. It helps to see the changes without the need to compare two documents. SuggestedRemedy For next Drafts: show the new editorial marks (insertions and deletions) in addition to the changing bars. Proposed Response Response Status Z REJECT.	Darshan, Yair Comment Type T Delete Editor Note #3. SuggestedRemedy	Microsemi Comment Status D	L 44	
in addition to the changing bars. It helps to see the changes without the need to compare two documents. SuggestedRemedy For next Drafts: show the new editorial marks (insertions and deletions) in addition to the changing bars. Proposed Response Response Status Z	Darshan, Yair Comment Type T Delete Editor Note #3. SuggestedRemedy	Microsemi Comment Status D It was adressed in D1.7. It was addressed in D1.7. Response Status W	L 44	
in addition to the changing bars. It helps to see the changes without the need to compare two documents. SuggestedRemedy For next Drafts: show the new editorial marks (insertions and deletions) in addition to the changing bars. Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter.	Darshan, Yair Comment Type T Delete Editor Note #3. SuggestedRemedy Delete Editor Note #3. Proposed Response	Microsemi Comment Status D It was adressed in D1.7. It was addressed in D1.7. Response Status W	L 44	
in addition to the changing bars. It helps to see the changes without the need to compare two documents. SuggestedRemedy For next Drafts: show the new editorial marks (insertions and deletions) in addition to the changing bars. Proposed Response Response Status Z REJECT. This comment was WITHDRAWN by the commenter. We are replacing the whole clause, so the editing marks do not get shown.	Darshan, Yair Comment Type T Delete Editor Note #3. SuggestedRemedy Delete Editor Note #3. Proposed Response	Microsemi Comment Status D It was adressed in D1.7. It was addressed in D1.7. Response Status W	L 44	# 22 Editoria

<i>Cl</i> 33 <i>SC</i> 33.2.8 Darshan, Yair	P 105 Microsemi	L 32	# 23	<i>CI</i> 33 Darshan, Ya	SC 33.2.8.7 air	P 111 Microsemi	L 14	# 25
Comment Type T	Comment Status D		Editorial	Comment T	ype TR	Comment Status X		Pres: Darshan5
Delete Editor Note #1. SuggestedRemedy Delete Editor Note #1. Proposed Response PROPOSED ACCEPT.	It was addressed in D1.7.			"[**Part- current Figure 3 [**Part- (TBD) re	1**] Power sha exceeds the "P 3-14b. 2**] When con	ee darshan_05_0516.pdf for c ill be removed from a pairset I SE upperbound template" in I nected to a single signature P om both pairsets before the c rset."	PI of á PSE befo Figure 33-14, Fig PD, a Type 3 or ⊺	gure 33-14a, and Type 4 PSE should
C/ 33 SC 33.3.7.6 Darshan, Yair	P 145 Microsemi	L 30	# 24	a)Each	pairset is alrea	single-signature PD: dy protected by [**part-1**]. set doesn't add extra protecti	on to the PD	
"a)" should be deleted i "a) A Type 1 PD input o 38) after TLIM min (see SuggestedRemedy	Comment Status D D1.6 according to approved re in the following text: current shall not exceed the P Table 33-17 for a Type 1 PS	D upperbound t	emplate (see Figure 33-	c)Forcin designe We don pairset a was not remainin	g the PSE to s d to work at lov 't need [**Part- approaches the designed to ha	hut off both pairset in case of wer power in case of fault whe 2**] due to the fact that in sing upper bound template, this p andle lower power mode, the t will be disconnected as well	fault, kills PD a en 4-pairs is requ gle-signature PD pairset will be po whole current wi	uired for full power.) if current over a wered off, if the PD Il flow through the
33–38) after TLIM min	current shall not exceed the Pl (see Table 33–17 for a Type 1 to the next paragraph starting	I PSE) when th	e following"		l: connected to a	single signature PD, a Type 3		
Proposed Response	Response Status W			power fr	om both pairse	ets before the current exceeds	s the "PSE uppe	rbound template"
PROPOSED ACCEPT Editor to follow IEEE st	IN PRINCIPLE. yle guide (are a's allowed if no	o b is present?)		The solu		olution proposed by Chritian t escribed in darshan_05_0516 neeting.		
				Proposed R WFP	esponse	Response Status W		

C/ 33 SC 33.2.10.1.2	P 119	L 22	# 26	C/ 33	SC 33	3.2.5.12	P 98	L 4	# 27
Darshan, Yair	Microsemi		" 20	Darshan, Y			Microsemi		" 21
Comment Type TR 0	Comment Status X		PSE MPS	Comment 7	уре -	TR	Comment Status X		PSE Class
False disconnect or false n need to be adrressed. We need to allow PSE syst for a dt of 0.8ms to 20ms w cycle of MPS+TMPDO for a	tem to decide what to do in hich result with distored o	n this case when	a PSE dv of up to 2V	When PD clas to supp power.	Type 3 P ss 5 or at ly the co	SE with bove an prrect nu	e following use case (as an e available power of Type 1 or d we need to report to the ho mber of fingers (1 in case of	Type 2 conne st what is the a 15.4W) to indic	actual PD class and yet cate the available PSE
SuggestedRemedy				event.	purpose	e we nee	ed to allow class reset after 3	class event ar	nd issuing one class
Add the following text to the Option 1: Type 3 and Type 4 PSE wh absence of a short MPS pulse. MPS pulse. Type 3 and Typ voltage change dv of up to window of 3 sec (TBD) may absence of short MPS puls	nen supporting short MPS Ilse as a result of PSE dv/ be 4 PSE when supportin 2V and time duration dt of / maintain the power or dis	anay fail to dete dt that may canc g short MPS dur f 0.8msec to 10n sconnect the pov	el or distorted or add ing PSE dv/dt for PSE nsec for a sliding time wer when presence or	"Type 3 Type 3 to clear	dd the fo and Typ and Typ the clas	pe 4 PS e 4 PSE is and m	text at page 98 line 4: Es may issue up to 3 class e Es incapable of supporting PE nark event counts and may is the PSE available power."	Class may is:	sue a class reset event
Option 2: A PSE may ignore the curr which permits PSEs to dea signal.				detect	and not p class 6 F	bower" o	SE SM since it is optional fea or PSE can use Type 4 class nay other examples in the cu	7 current settir	ngs when operating
Proposed Response R	esponse Status W			Proposed F	Response	Ð	Response Status W		
TFTD				TFTD.					
I do not like either option. ignore the MPS status and often. To let the PSE ignor matter of time before some PSE toasts some poor NIC	say that there was a 1nV e a missed MPS pulse ev thing is unplugged and so	transient. Optio very 3 seconds se	n 2 seems way to eems to make it just a	"Type 3 Class.	the follow and Typ Type 3 a	pe 4 PS ind Type	t at page 98 line 4: Es may issue up to 3 class e 4 PSEs incapable of suppor a class reset event to clear t	ting the assign	ed Class due to those

may issue the lowest number of class events that corresponds to the PSE available power."

PSF Inrush

CI 33	SC 33.2.8.5	P 109	L 20	# 28
Darshan,	Yair	Microsemi		

Comment Type TR Comment Status X

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**."

Proposed Response Response Status W

TFTD

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."

CI 33	SC 33.2.8	P 102	L 49	# 29
Darshan, Y	′air	Microsemi		
Comment T	Type TR	Comment Status X		Pres: Darshan1

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

See darshan_01_0516.pdf for proposed remedy.

Proposed Response	Response Status	W	
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TR

WFP

TFTD

Comment Type

CI 33	SC 33.3.7.3	P 141	L 16	# 30
Darshan, '	Yair	Microsemi		

Pres: Darshan2

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 X

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.

Proposed Response Response Status W

WFP

TFTD

C/ 33 SC 33.3.7.6 P 145 # 31 C/ 33 P 90 L5# 33 L 25 SC 33.2.6 Darshan, Yair Darshan, Yair Microsemi Microsemi Comment Type TR Comment Status X 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. Proposed Response Response Status W To add text that PSE may detect and not continue and go to IDLE or detect and classify WFP and not go to POWER UP or detect and classify and POWER UP and not continue to POWER ON. TFTD To find the location with the existing text and update it. SuggestedRemedy SC 33.2.7.2 C/ 33 P 99 / 1 # 32 Change to: Darshan, Yair Microsemi "Also, a PSE may successfully detect and classify a PD but then opt not to power the Comment Type Comment Status D PSE Class TR detected PD." The following requirement is not described by the state machine. Proposed Response Response Status W "If any measured IClass is equal to or greater than IClass LIM min, a Type 2, Type 3 or PROPOSED REJECT. 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 SuagestedRemedv 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 C/ 33 SC 33.2.7.2 P 99 L 9 # 34 machine." Darshan, Yair Microsemi "Editor Note: To address in the state machine the case of what should Type 2, 3 and 4 do Comment Type TR Comment Status D PSE Class if the measured IClass is within the range of IClass_LIM or use text only (preffered)." "The PSE shall complete Multiple-Event Physical Layer classification and transition to the Proposed Response Response Status W POWER ON state without allowing the voltage at the PI or pairset to go below VMark min. PROPOSED ACCEPT IN PRINCIPLE. unless in the CLASS RESET PRI or CLASS RESET SEC states." Partial OBE by 130. Missing POWER UP state as well. SuggestedRemedy 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. Change to: "The PSE shall complete Multiple-Event Physical Laver classification and transition to the TFTD POWER UP and POWER ON state without allowing the voltage at the PI or pairset to go below VMark min, unless in the CLASS RESET PRI or CLASS RESET SEC states." Proposed Response Response Status W PROPOSED REJECT. If we transition to POWER ON, that means we went through POWER UP. So the requirement is already there.

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

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

Comment ID 34

Page 10 of 61 5/4/2016 1:29:31 PM

C/ 33 SC 33.2.8 Darshan, Yair	P 103 Microsemi	L 30	# 35	C/ 33 Darshan,	SC 33.2 Yair	8.4	P 107 Microsemi	L 45	# 37
-	Comment Status D					Con			
	2 class 4 row, min value 0.684. was attached to the 0.684A for	Type 3 and 4 wa	PSE Power	Equat	1.3 we have tion 33-10 m	new definitio ust use the F	nment Status D ons: Rchan and Rchai Rchan-2P, so it is not han-2P is specific per	required to use I	PSE Pow Rchan/2 while Rchan is
SuggestedRemedy				Suggeste	dRemedy				
"^2 Unbalance at cla	9"0.684^2". ext after Table 33-17: ass 4 is not restricted. The ILIM- and 4 PSEs operating with 4-pairs		er than the value for	2. Ch To "R	ange "RChar Chan-2P is t	is the chan he channel l	Rchan-2P" in Equatio nel DC loop resistanc DC loop resistance as	e as defined in 3	33.1.3"
Proposed Response PROPOSED ACCE	Response Status W			,	Response POSED ACC	,	oonse Status W		
				CI 33	SC 33.3	3.11	P 130	L 3	# 38
TFTD				Darshan,	Yair		Microsemi		
Was the wrong note	e deleted? Because note 1 does	n't seem to mak	ke sense anymore.	<i>Comment</i> To ad	<i>Type</i> TR d dual sig Pl		nment Status X		Pres: Darshar
	9 "0.684^2". ext after Table 33-17: lass 4 is not restricted. The ILIM-	2P value is high	ner than the value for	Proposed		U	e state machine in da bonse Status W	rshan_06_0516.	pdf
C/ 33 SC 33.2.8	<i>P</i> 105	L 36	# 36	WFP					
Darshan, Yair	Microsemi	2.50	# 30	TFTD					
under unbalance co Due to lake of time,	Comment Status X s item is important for the integrit ondition. this subject was not resolved ye th the group how to continue with	t.							
SuggestedRemedy	0	,							
	516.pdf for discussion details and	d possible reme	dy						
Proposed Response	Response Status W								
WFP									
тетр									

CI 33 SC Darshan, Yair	33.2.7.1	P 97 Microsemi	L 38	# 39	CI 33 SC Darshan, Yair	33.2.6.1	P 90 Microsemi	L 52	# 40
to the IDLE s state." Is not covere There are pr shall's.	ured IClass state or clase ed by the st obably othe	Comment Status D is within the range of IClass_ ssify the PD as Class 0; a Typ ate machine. er requirements that are not cr at force us to describe shall ir	overed by the s	return to the IDLE	connection max (define TReset (def	ge on either check, the l d in Table 3 ined in Tab	Comment Status D pairset rises above Vvalid m PSE shall reset the PD by bri 33–17) for at least le 33–15) before performing time in which we consider the	inging the voltag	ge at the PÍ below Voff
simplicity an SuggestedReme Add the follo "Editor Note	d readabilit edy wing Editor : To addres	, ,	se of what shou	uld Type 1 do if the	than TBD m voltage at th	ge on either isec** durin ne PI below 5) before pe	pairset rises above Vvalid m g connection check, the PSE Voff max (defined in Table 3 prforming classification." Response Status W	shall reset the	PD by bringing the
request. I de	REJECT. changing th on't believe	Response Status W e Type 1/2 State Diagram unl we should do this anyway. V SD, we shouldn't have to inclu	Ve don't have t	hese requirements	PROPOSEI PDs have n	D REJECT. o timing rec esholds. T	quirements that force them to hus a PD can count a pulse a		

CI 33 SC 3 3 Darshan, Yair	3.2.6.1	P 90 Microsemi	L 40	# 41	Cl 33 SC 33.2.5 Johnson, Peter	.9	P 68 Sifos Techno	L 10 logies	# 43
Comment Type Table 33-7 item		ment Status X below.		Connection Check	Comment Type E The definitions for I no mention of these	oort-2P-pri		h finish with (se	<i>PSE SD</i> e 33.2.8.6), but there is
mated MDI exis start to complet The requiremer The note doesr	sts Tcc minimur tion which can b nt is not clear. I't explain the T	n. And then item 3 re be interpreted that tota	quires Tcc_min		SuggestedRemedy Remove the referen Proposed Response PROPOSED ACCE	Resp	2.8.6 bonse Status W		
simultaneously	a link segment is . Therefore, a m ck that includes		c_min) is requi		CI 33 SC 33.2.8 Johnson, Peter Comment Type T		P 109 Sifos Techno	L 1 logies	# 44
Proposed Respons TFTD		onse Status W			Rpse_max is define	d as "the r	naximum PSE comm ninimum PSE commo		ve resistance" and
See 124.					This is slightly conf absolute values in s		may infer that there an somewhere.	re some maximi	um and minimum
C/ 33 SC 3 : Darshan, Yair	3.3.3.10	P 129 Microsemi	L 8	# 42	SuggestedRemedy Change to:				
It is not clear th Technically the to simplify futur	at the state ma re is no need fo e PD chip desig	ment Status X chine permits Tdelay r it since Type 1 curre gns we need to allow rrent consumption by	ent always < PS same behavior	E Inrush_min however	Rpse_min is the l polarity. For a given Rpse_r	•	sible effective resistar	nce in the power	red pairs of the same
SuggestedRemedy	-	proposed remedy.			Rpse_max is the polarity.	highest po	ssible effecive resista	nce in the powe	ered pairs of the same
Proposed Respons		onse Status W			Proposed Response TFTD.	Resp	oonse Status W		
TFTD					I don't think you can descirbes equation		ike that as the two pa	rameters are in	side a "where" that
However, I see like Type 1, whi			rdly timer is me	ant to make all PDs act	l also don't underst	and what w	ve are really trying to	say here.	
					resistance of the po	wered pair	RPSE_min is the low s of the same polarity ve resistance in the p	/? And RPSE_r	

C/ 33 SC 33.2.8.6 P110 L 48	# 45	C/ 33 SC 33.2.8.7	P 112	L 12	# 46
Johnson, Peter Sifos Technologies		Johnson, Peter	Sifos Technolog	ies	
Comment Type T Comment Status X	PSE Power	Comment Type T	Comment Status D		PSE Powe
Iport-2P is defined in two places, 33.2.8.4 and then again in 33.2.8.6. I one definition, and given the present structure of the standard, that def universal to all PSE types and powering modes. Both 33.2.8.4 and 33	inition needs to be	Figures 33-28 and 33-29 no ILIM definition any mo	include an ILIM parameter or pre.	the right verti	cal axis. But there is
relationship between Iport-2P and Type 3/4 PSEs.		Presumably, these shoul	d be removed.		
Suggestion is to broaden the Iport-2P definition in 33.2.8.4 - that is cov comment. Then move the Iport definition to 33.2.8.4 along side of the		SuggestedRemedy Remove ILIM from Figure	es 33-28 and 33-29.		
SuggestedRemedy		Proposed Response	Response Status W		
Modify 33.2.8.4:		PROPOSED ACCEPT.			
Add first sentence: "IPort is the total current supplied by the PSE to the PI."		TFTD			
Modify 33.2.8.6:		Cl 33 SC 33.2.8.7 Johnson, Peter	P 112 Sifos Technolog	L 48 ies	# 47
Revise: "If IPort, the current supplied by the PSE to the PI, exceeds ICUT-2P for	or"	Comment Type E	Comment Status D		Editoria
to		References to equations	are all off by one.		
"If IPort exceeds ICUT-2P for"		SuggestedRemedy			
Revise:		Replace with:			
"If IPort-2P, the current supplied on a pairset by the PSE to the PI, exceeds ICUT-2P for longer"		" described by Equation	n (33-15), Equation (33-16), Ec	nuation (33-17) "
to		Proposed Response	Response Status W)
"If IPort-2P exceeds ICUT-2P for longer"		PROPOSED ACCEPT.			
Modify Iport definition in 33.2.5.4:					
Revise:		C/ 33 SC 33.2.8.7	P 113	L 31	# 48
"IPort Output current (see 33.2.8.6)."		Johnson, Peter	Sifos Technolog	ies	
to "IPort Output current (see 33.2.8.4)."		Comment Type E	Comment Status D		Editoria
Proposed Response Response Status W			eath Equations 33-15, 33-16, a be max, VPSE, and Iport-2P-c		ude 3 terms not used
TFTD					
		SuggestedRemedy			
		Domovo thoso tormo			

Remove these terms. Proposed Response Response Status W PROPOSED ACCEPT.

Comment ID 48

Cl 33 SC 33.2.8.7 Johnson, Peter	P 114 L 16 Sifos Technologies	# 49	C/ 33 SC 33.2.8. Johnson, Peter	4 P 106 Sifos Techr	L 46	# 51
	•		,		lologies	
Comment Type TR The list of variables bene it is 'Icon-2P min' that is u	<i>Comment Status</i> D ath Equations 33-18, 33-19, 33-20 include used in the equations.	PSE Power s the term Icon-2P but		Comment Status X be OBE by presentation.		Pres: Johnson?
The definition for Icon-2P	is okay.		This comment may t	e OBE by presentation.		
SuggestedRemedy Replace Icon-2P with 'Ico Proposed Response	n-2P min'. Response Status W		defines Icon = Pclas	s Icon-2P = Pclass / Vpse wh s / Vport-PSE-2P. If we assu PSE-2P (defined in Table 3-1	me Vpse (defined	l in 1.4) is the really the
PROPOSED ACCEPT.				ass-2P are really defined in E	Q 33-2 and EQ 3	3-3 respectively, not
C/ 33 SC 33.2.8.4	P 106 L 27	# 50	Tables 33-11 and 33	-12.		
Johnson, Peter	Sifos Technologies		SuggestedRemedy			
Comment Type T	Comment Status X	Pres: Johnson?	Change Equation 33	-7 to:		
The terms Iport-2P and Ip diagram. These terms ha used as vertical axis to cu Iport is defined earlier wit references 33.2.8.6. SuggestedRemedy One remedy is to add a s Iport-2P = Iport for Type 1 and Ty	is written for 4-Pair (Type 3/4) PSE's only: bort-2P-other are defined using terms from ave no meaning for 2-Pair powering cases. urrent templates including those applicable h the Type 1 and Type 2 state machine in pecificity to Iport-2P definition:	the Type 3/4 state Iport-2P is then later to Type 1/2 PSEs. 33.2.5.4. that in turn	Icon-2P = Icon when in 2-pa = min() when 4-p = Pclass-2P / Vpse w where Pclass is defined in I Pclass-2P is defined <i>Proposed Response</i> WFP? TFTD	air powering a single signatu vhen 4-pair powering a dual s Equation 33-2	re PD ignature PD	
Iport-2P-other = Iport-2P-sec for the Prir = Iport-2P-pri for the Sec	condary Alternative of Type 3 and Type 4 mary Alternative of Type 3 and Type 4 PSI ondary Alternative of Type 3 and Type 4 P <i>Response Status</i> W	Ēs				

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

Cl 33 SC 33.2.8.4 Johnson, Peter	P 107 Sifos Technol	L 33 ogies	# 54	C/ 33 Johnson, F		3.2.10.1.	2	P 118 Sifos Technol	L 30 logies	# 55
	Comment Status X e OBE by presentation. equations for Ipeak-2P_unb: E	Q 33-9 and EC	Pres: Johnson?	3). Th	ns that the rules for	or Type 3		inting for a Typ		PSE MPS owers 2-pair (Class 1- wering of single
port voltage and PD k EQ 33-11 describes II of PSE port voltage o sample calculation of ILIM-2P_min (702 mA Is EQ 33-11 indicating SuggestedRemedy Not sure what to do h One option is to just e	Peak-2P_unb as a function of r PD load - it is a fixed value gr Ipeak-2P_unb for Class 6 (828) for Class 6. g that ILIM-2P_min must be hig	ILIM-2P, but ILI eater than ILIN 3mA) produces gher than what	M-2P is not a function I-2P_min. Also, my a figure well higher than is in Table 33-17 ??????	"A PSE Revise "A Typ "A PSE Revise "A Typ "A PSE <i>Proposed I</i> PROP DS PD own ur	e 1 and E poweri e 3 or Ty E poweri e 3 or Ty E poweri Respons OSED A O rules sh	Type 2 P ng with 2 ype 4 PS ng a sing ype 4 PS ng a dual e CCEPT I nould not es per pa	2 pairs:" E, when conn gle signature F E, when conn I signature PD <i>Response</i> S IN PRINCIPLE change base	D with 4 pairs ected to a dua with 4 pairs:" <i>tatus</i> W don number o	Il-signature PD:'	
Proposed Response WFP? TFTD	Response Status W			"A Typ Revise "A Typ "A Typ Revise "A Typ	e 1 and e 1, Typ e 3 or Ty e 3 or Ty e 3 or Ty e 3 or Ty	/pe 4 PS /pe 4 PS /pe 4 PS	ype 3 PSE po E, when conn E powering a E, when conn	ected to a sing single signatu	e-signature PD v gle-signature PE re PD with 4 pai al-signature PD: PD:"):" to irs:"

C/ 33 SC 33.3.7.4 P 141 L 49 # 56 Johnson, Peter Sifos Technologies Sifos Technologies	Cl 33 SC 33.3.7.4 P 142 L 35 # 57 Johnson, Peter Sifos Technologies
Comment Type T Comment Status X Pres: Johnson1 This commment is a recommendation to separate concepts of extended power to class 6 and class 8 PDs and associated requirements to meet *PSE* output power rather than *PD* input power requirements from other more general and more widely applicable PD requirements. We also need to better qualify the cases where Class 6 and Class 8 PDs are not subject to Pclass_PD and Ppeak_PD limits. 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.	Comment Type T Comment Status D PD Power This comment may be OBE by another comment I'm submitting for 33.3.7.4. Certain phrases are written as if all Class 6 and Class 8 PDs will benefit from extended power. This is contradictory with 33.3.7.2 and needs to be corrected. Examples: Line 35 "The maximum IPort value for all PDs except those in Class 6 or Class 8"
SuggestedRemedy Create new sub-sections 33.7.2.1 and 33.3.7.4.1.	Line 47 "The maximum IPort value for all PDs in Class 6 or Class 8, over the operating VPort" SuggestedRemedy
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.	Revise these phrases. Line 35 "The maximum IPort value for PDs that operate across all possible channels, over the operating VPort_PD-2P range"
Proposed Response Response Status W WFP	Line 47 "The maximum IPort value for Class 6 or Class 8 PDs that are aware of actual channel DC resistance, over the operating VPort_PD-2P range"
TFTD	Proposed Response Response Status W PROPOSED REJECT. I don't see a remedy, just a comment telling me which text is wrong.

IEEE P802.3bt D1.7	4-Pair Power-c	over-Ethernet 10th	Task Force	review comments
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C/ 33 SC 33.3.7.4 P 143 L 6 # 58 Johnson, Peter Sifos Technologies Sifos Technologies	C/ 33 SC 33.2.7.2 P 99 L 28 # 60 Lukacs, Miklos Silicon Labs
Comment Type ER Comment Status D PD Power The final sentence in this section is *really* hard to comprehend: PD Power PD Power	Comment Type T Comment Status X Pres: Lukac A timing diagram showing the multiple event classification would help in understanding the text and would make the intent more clear.
"These equations may be used to calculate PPeak_PD or PPeak_PD-2P for Data Link Layer classification and for Autoclass by substituting PClass_PD with PDMaxPowerValue and PAutoclass_PD respectively."	SuggestedRemedy See timing diagrams presentation (Lukacs)
SuggestedRemedy	Proposed Response Response Status W
Make it easier to understand:	WFP
"These equations may be used to calculate PPeak_PD and PPeak_PD-2P from PClass_PD and PClass_PD-2P respectively, or from PDMaxPowerValue utilized in Data	TFTD
Link Layer classification, or from PAutoclass_PD utilized in Autoclass."	Cl 33 SC 33.2.5.11 P75 L 50 # 61
Proposed Response Response Status W	Lukacs, Miklos Silicon Labs
PROPOSED ACCEPT IN PRINCIPLE.	Comment Type E Comment Status D PSE SI
PROPOSED ACCEPT IN PRINCIPLE. "These equations may be used to calculate Ppeak_PD or Ppeak_PD-2P for Data Link Layer classification by substituting Pclass_PD with PDMaxPowerValue and for Autoclass by substituting Pclass_PD with Pautoclass_PD."	Comment Type E Comment Status D PSE St There is a typo here (if) and the text is not precise enough: "pd autoclass is set to True when a class signature if '0' is detected, otherwise it is set to False." Status D PSE St
"These equations may be used to calculate Ppeak_PD or Ppeak_PD-2P for Data Link Layer classification by substituting Pclass_PD with PDMaxPowerValue and for Autoclass by substituting Pclass_PD with Pautoclass_PD."	There is a typo here (if) and the text is not precise enough: "pd autoclass is set to True when a class signature if '0' is detected, otherwise it is set
"These equations may be used to calculate Ppeak_PD or Ppeak_PD-2P for Data Link Layer classification by substituting Pclass_PD with PDMaxPowerValue and for Autoclass by substituting Pclass_PD with Pautoclass_PD."	There is a typo here (if) and the text is not precise enough: "pd autoclass is set to True when a class signature if '0' is detected, otherwise it is set to False." SuggestedRemedy pd autoclass is set to True when a class signature of '0' is detected during the TACS
"These equations may be used to calculate Ppeak_PD or Ppeak_PD-2P for Data Link Layer classification by substituting Pclass_PD with PDMaxPowerValue and for Autoclass by substituting Pclass_PD with Pautoclass_PD." C/ 33 SC 33.2.7.1 P 97 L 40 # 59 C/ 33 SC 33.2.7.1 P 97 L 40 # 59 Lukacs, Miklos Silicon Labs Pres: Lukacs	There is a typo here (if) and the text is not precise enough: "pd autoclass is set to True when a class signature if '0' is detected, otherwise it is set to False." SuggestedRemedy
"These equations may be used to calculate Ppeak_PD or Ppeak_PD-2P for Data Link Layer classification by substituting Pclass_PD with PDMaxPowerValue and for Autoclass by substituting Pclass_PD with Pautoclass_PD." C/ 33 SC 33.2.7.1 P 97 L 40 # 59 C/ 33 SC 33.2.7.1 P 97 L 40 # 59 Lukacs, Miklos Silicon Labs Pres: Lukacs Comment Type T Comment Status X Pres: Lukacs A timing diagram showing the single event classification would help in understanding the Status Status Status Status	 There is a typo here (if) and the text is not precise enough: "pd autoclass is set to True when a class signature if '0' is detected, otherwise it is set to False." SuggestedRemedy pd autoclass is set to True when a class signature of '0' is detected during the TACS window (no earlier than TACS min and no later than TACS max, as defined in Table
"These equations may be used to calculate Ppeak_PD or Ppeak_PD-2P for Data Link Layer classification by substituting Pclass_PD with PDMaxPowerValue and for Autoclass by substituting Pclass_PD with Pautoclass_PD." C/ 33 SC 33.2.7.1 P 97 L 40 # 59 C/ 33 SC 33.2.7.1 P 97 L 40 # 59 Lukacs, Miklos Silicon Labs Silicon Labs Comment Type T Comment Status X Pres: Lukacs A timing diagram showing the single event classification would help in understanding the text and would make the intent more clear. Silicon Labs	 There is a typo here (if) and the text is not precise enough: "pd autoclass is set to True when a class signature if '0' is detected, otherwise it is set to False." SuggestedRemedy pd autoclass is set to True when a class signature of '0' is detected during the TACS window (no earlier than TACS min and no later than TACS max, as defined in Table 33–27), otherwise it is set to False.
"These equations may be used to calculate Ppeak_PD or Ppeak_PD-2P for Data Link Layer classification by substituting Pclass_PD with PDMaxPowerValue and for Autoclass by substituting Pclass_PD with Pautoclass_PD." Cl 33 SC 33.2.7.1 P 97 L 40 # 59 Cukacs, Miklos Silicon Labs Comment Type T Comment Status X Pres: Lukacs A timing diagram showing the single event classification would help in understanding the text and would make the intent more clear. SuggestedRemedy	 There is a typo here (if) and the text is not precise enough: "pd autoclass is set to True when a class signature if '0' is detected, otherwise it is set to False." SuggestedRemedy pd autoclass is set to True when a class signature of '0' is detected during the TACS window (no earlier than TACS min and no later than TACS max, as defined in Table 33–27), otherwise it is set to False. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.
 "These equations may be used to calculate Ppeak_PD or Ppeak_PD-2P for Data Link Layer classification by substituting Pclass_PD with PDMaxPowerValue and for Autoclass by substituting Pclass_PD with Pautoclass_PD." Cl 33 SC 33.2.7.1 P 97 L 40 # 59 	 There is a typo here (if) and the text is not precise enough: "pd autoclass is set to True when a class signature if '0' is detected, otherwise it is set to False." SuggestedRemedy pd autoclass is set to True when a class signature of '0' is detected during the TACS window (no earlier than TACS min and no later than TACS max, as defined in Table 33–27), otherwise it is set to False. Proposed Response Response Status W
 "These equations may be used to calculate Ppeak_PD or Ppeak_PD-2P for Data Link Layer classification by substituting Pclass_PD with PDMaxPowerValue and for Autoclass by substituting Pclass_PD with Pautoclass_PD." Cl 33 SC 33.2.7.1 P 97 L 40 # 59 Cukacs, Miklos Silicon Labs Comment Type T Comment Status X Pres: Lukacs A timing diagram showing the single event classification would help in understanding the text and would make the intent more clear. SuggestedRemedy See timing diagrams presentation (Lukacs) Proposed Response Response Status W 	 There is a typo here (if) and the text is not precise enough: "pd autoclass is set to True when a class signature if '0' is detected, otherwise it is set to False." SuggestedRemedy pd autoclass is set to True when a class signature of '0' is detected during the TACS window (no earlier than TACS min and no later than TACS max, as defined in Table 33–27), otherwise it is set to False. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. pd autoclass is set to True when a class signature of '0' is detected during the TACS window (see Table 33–27), otherwise it is set to False.
 "These equations may be used to calculate Ppeak_PD or Ppeak_PD-2P for Data Link Layer classification by substituting Pclass_PD with PDMaxPowerValue and for Autoclass by substituting Pclass_PD with Pautoclass_PD." Cl 33 SC 33.2.7.1 P 97 L 40 # 59 	There is a typo here (if) and the text is not precise enough: "pd autoclass is set to True when a class signature if '0' is detected, otherwise it is set to False." SuggestedRemedy pd autoclass is set to True when a class signature of '0' is detected during the TACS window (no earlier than TACS min and no later than TACS max, as defined in Table 33–27), otherwise it is set to False. Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. pd autoclass is set to True when a class signature of '0' is detected during the TACS

C/ 33 SC 33.2.5.11. Lukacs, Miklos	. P 76 Silicon Labs	L 2	# 62	C/ 33 Lukacs, N	SC 33.2.5.8	P 65 Silicon Labs	L 40	# 65
Comment Type E	Comment Status D		PSE SD	Comment		Comment Status D		PSE SL
	to the signature seen during t	ne first (long)		const		neter_type" is written in small	caps, while the	
SuggestedRemedy				Suggeste	dRemedy			
The PD classification si first class event.	ignature seen before TACS m	n during the I	ong		should be written	similarly, and preferably ALL (CAPS:	
Proposed Response	Response Status W			Proposed	Response	Response Status W		
PROPOSED ACCEPT	IN PRINCIPLE.			PROF	POSED ACCEPT	IN PRINCIPLE.		
Change variable name	to "mr_pd_autoclass_detected	I".		OBE	by 219			
Do not implement sugg	est rememdy.			C/ 33	SC 33.2.1	P 47	L 10	# 66
The variable is referring	g to the signature during the w	ndow, not bei	fore it.	Lukacs, N		Silicon Labs		
C/ 33 SC 33.2.5.11 Lukacs, Miklos	P 76 Silicon Labs	L 10	# 63			Comment Status D of table 33-2: the meaning of "S	Short MPS sup	PSE Types port" is not clear at this
Comment Type E	Comment Status X		Pres: Lukacs	Suggeste	dRemedv			
51	ing the classification part of Au	toclass would		Add a Note	note under table	33-2: ms, see table 33-17 line 23, cla	ause 33.3.5.2 a	and table 33-29 for
SuggestedRemedy See timing diagrams pr	esentation (Lukacs)				Response	Response Status W		
Proposed Response	, , , , , , , , , , , , , , , , , , ,			PROF	POSED REJECT.			
WFP	Response Status W			l helie	we we removed a	a note pointing to theses sectio	ns from this he	ader last time None
TFTD				of the only a	other columns he	allowed Types, the reader nee	on't need expla	anation. This table is
C/ 33 SC 33.2.5.8	P 65	L 39	# 64	under	Stariu It.			
Lukacs, Miklos	Silicon Labs							
Comment Type E	Comment Status X		Pres: Lukacs					
A timing diagram show the text and would mak	ing the cconnection check seq e the intent more clear.	uences would	help in understanding					
SuggestedRemedy								
See timing diagrams pr	esentation (Lukacs)							
Proposed Response	Response Status W							
WFP								
TFTD								
		eneral require				Commei		

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 Lukacs, Miklos	P 47 Silicon Labs	L 10	# 67	C/ 33 SC Picard, Jean	33.2.5.9	т	P 66 exas Instrum	L 46 nents	# 69
Comment Type E	Comment Status D		PSE Types	Comment Type	TR	Comment Sta	atus D		PSE S
It is hard to understand supported."	the column header of column	n 3 "Range of m	aximum classes	The class_4 is used in th		events_sec varia	ıble is missin	g from the list of	variables although it
				SuggestedReme	edy				
SuggestedRemedy				Add the follo	wing varial	ble from "Picard_	_03_0316.pd	f" page 1:	
Change it back to "Max	imum Class Supported"			class 4PID	mult over	nta ana			
Proposed Response	Response Status W			_		_	es 3 class ev	ents on the seco	ondary alternate to
PROPOSED ACCEPT	IN PRINCIPLE.			determine if	the dual sig	gnature PD is a d	candidate for	4-pair power.	
OBE by 137					0	ates at least 3 cla	ass events to	determine if the	PD is a candidate for
				4-pair power					
OBE by 157				FALSE the	PSE does	not need to dene	erate 3 class	events to determ	nine if the PD is a
We wanted to make su	re that you could build a PSE	that was not lis	ted in that table such	FALSE: the candidate fo			erate 3 class	events to determ	nine if the PD is a
,	5	that was not lis	ted in that table such		or 4-pair pov			events to determ	nine if the PD is a
We wanted to make su as a Type 3, class 3 PS	5	that was not lis	ted in that table such	candidate fo	or 4-pair pov onse	wer." Response Sta		events to determ	nine if the PD is a
We wanted to make su as a Type 3, class 3 PS C/ 33 SC 33.3.7.3	SE for example	L 8		candidate fo Proposed Respo PROPOSEL	or 4-pair pov onse D ACCEPT.	wer." Response Sta	tus W		
We wanted to make su as a Type 3, class 3 PS C/ 33 SC 33.3.7.3 Picard, Jean	SE for example	L 8		candidate fo Proposed Respo PROPOSED CI 33 SC	or 4-pair pov onse	wer." Response Sta	ntus W P 66	L 39	# 70
We wanted to make su as a Type 3, class 3 PS C/ 33 SC 33.3.7.3 Picard, Jean Comment Type TR	SE for example <i>P</i> 141 Texas Instrum	L 8 ients	# 68 PD Inrush	candidate fo Proposed Respo PROPOSED C/ 33 SC Picard, Jean	or 4-pair pov onse D ACCEPT. 33.2.5.9	wer." Response Sta T	<i>tus</i> W <i>P</i> 66 exas Instrum	L 39	# [70
We wanted to make su as a Type 3, class 3 PS C/ 33 SC 33.3.7.3 Picard, Jean Comment Type TR	SE for example P 141 Texas Instrum Comment Status D Is to be cleaned up to remove	L 8 ients	# 68 PD Inrush	candidate fo Proposed Respo PROPOSEE C/ 33 SC Picard, Jean Comment Type	or 4-pair pov onse D ACCEPT. C 33.2.5.9 ER	wer." Response Sta T Comment Sta	<i>P</i> 66 exas Instrum atus D	<i>L</i> 39 nents	
We wanted to make sur as a Type 3, class 3 PS Cl 33 SC 33.3.7.3 Picard, Jean Comment Type TR PD inrush section need the spec simpler and cl	SE for example P 141 Texas Instrum Comment Status D Is to be cleaned up to remove	L 8 ients	# 68 PD Inrush	candidate fo Proposed Respo PROPOSEE CI 33 SC Picard, Jean Comment Type "A variable i	ACCEPT.	wer." Response Sta T <i>Comment Sta</i> the PSE genera	<i>P</i> 66 exas Instrum atus D tes 3 class e	L 39 nents vents to"	# [70
We wanted to make sur as a Type 3, class 3 PS C/ 33 SC 33.3.7.3 Picard, Jean Comment Type TR PD inrush section need the spec simpler and cl	SE for example P 141 Texas Instrum Comment Status D Is to be cleaned up to remove earer.	L 8 ients	# 68 PD Inrush	candidate fo Proposed Respo PROPOSEE Cl 33 SC Picard, Jean Comment Type "A variable i this is about	ACCEPT.	wer." Response Sta T Comment Sta	<i>P</i> 66 exas Instrum atus D tes 3 class e	L 39 nents vents to"	# [70
We wanted to make sur as a Type 3, class 3 PS Cl 33 SC 33.3.7.3 Picard, Jean Comment Type TR PD inrush section need the spec simpler and cl SuggestedRemedy See yseboodt_10_0516	SE for example P 141 Texas Instrum Comment Status D Is to be cleaned up to remove earer.	L 8 ients	# 68 PD Inrush	candidate fo Proposed Respo PROPOSED C/ 33 SC Picard, Jean Comment Type "A variable i this is about SuggestedReme	ACCEPT. ACCEPT. 33.2.5.9 ER ndicating if primary all edy	wer." Response Sta T <i>Comment Sta</i> the PSE genera	<i>P</i> 66 exas Instrum atus D tes 3 class e	L 39 nents vents to"	# [70
We wanted to make sur as a Type 3, class 3 PS Cl 33 SC 33.3.7.3 Picard, Jean Comment Type TR PD inrush section need the spec simpler and cl SuggestedRemedy See yseboodt_10_0516	SE for example P 141 Texas Instrum Comment Status D Is to be cleaned up to remove earer. S_pdinrush.pdf Response Status W	L 8 ients	# 68 PD Inrush	candidate fo Proposed Respo PROPOSED Cl 33 SC Picard, Jean Comment Type "A variable i this is about SuggestedReme Replace with	ACCEPT. C 33.2.5.9 ER ndicating if primary all edy n:	wer." Response Sta T <i>Comment Sta</i> the PSE genera ternate, it should	<i>P</i> 66 exas Instrum atus D tes 3 class e be mentione	L 39 nents vents to" ed.	# [70
We wanted to make sur as a Type 3, class 3 PS Cl 33 SC 33.3.7.3 Picard, Jean Comment Type TR PD inrush section need the spec simpler and cl SuggestedRemedy See yseboodt_10_0516 Proposed Response	SE for example P 141 Texas Instrum Comment Status D Is to be cleaned up to remove earer. S_pdinrush.pdf Response Status W IN PRINCIPLE.	L 8 ients	# 68 PD Inrush	candidate fo Proposed Respo PROPOSED Cl 33 SC Picard, Jean Comment Type "A variable i this is about SuggestedReme Replace with	ACCEPT. ACCEPT. C 33.2.5.9 ER ndicating if primary alt ady n: ndicating if	wer." Response Sta T <i>Comment Sta</i> the PSE genera ternate, it should	<i>P</i> 66 exas Instrum atus D tes 3 class e be mentione	L 39 nents vents to" ed.	# [<u>70</u> PSE S

C/ 33 SC 33.2.5.12 Picard, Jean	P 79 Texas Instrumer	L 35 nts	# 71	C/ 33 SC 33.2.5.1 Picard, Jean	2 P 81 Texas Instru	L 18 Iments	# 74
Comment Type TR The IF(CC_DET_SEQ ≠ previous Draft.	Comment Status D 2) statement is missing, seen	ns to have been	PSE SD deleted from	Comment Type ER A parenthesis is missi	Comment Status D		PSE SL
Proposed Response PROPOSED ACCEPT.	T_SEQ ≠ 2) statement. Refer Response Status W			Proposed Response PROPOSED ACCEPT	etween IF and "dll_4PID" Response Status W umber of open and close pa	renthesis currently	и.
The text shown to be inse be inserted before it.	erted in Picard_02 Replace	ed the text that v	# 72	C/ 33 SC 33.2.5.12 Picard, Jean	2 P 89 Texas Instru	L 23	# 75
SuggestedRemedy Replace 2nd line with ((d both_neither) * (sig_sec =	Response Status W	alid. Also "noth"		Proposed Response PROPOSED ACCEPT	tion that this is applicable to <i>Response Status</i> W		PSE SE
OBE by 177, 178 C/ 33 SC 33.2.5.12	P 81	L 9	# 73	C/ 33 SC 33.2.5.1 Picard, Jean	2 P 89 Texas Instru	L 23 Iments	# 76
SuggestedRemedy Replace with this IF (mr_pse_alternative = ((pd_req_pwr > 4) * (pse_	Texas Instrumer <i>Comment Status</i> D and another is at the wrong lo both) * ((mr_pse_ss_mode = _avail_pwr > 4))) THEN <i>Response Status</i> W	ocation.	PSE SD	SuggestedRemedy	Comment Status X te Diagram for DS PD is mis 6_dsmps.pdf presentation Response Status W	ssing	Pres: Yseboodt7

C/ 33 SC 33.2.5.12 Picard, Jean	Р 89 Texas Instrur	L 21 nents	# 77	<i>Cl</i> 33 Picard, Je	SC 33.2.5.12 an	2 <i>P</i> 88 Texas Instr	L 40 ruments	# 80
Comment Type ER "!" should NOT be there	Comment Status D e in the left column of Figure	33-22	PSE SD	Comment CLAS		Comment Status D EC title is already used som	ewhere else	PSE SD
SuggestedRemedy Remove the "!" symbol Proposed Response PROPOSED ACCEPT.	to read "mr_mps_valid_sun Response Status W	"		CLAS Proposed	ce with this S_EV1_LCE_RE <i>Response</i>	ESET_SEC. Refer to Picaro Response Status W	l_02_0316.pdf pa	ge 10
C/ 33 SC 33.2.5.12 Picard, Jean	P 89 Texas Instrur	L 14 nents	# 78		POSED ACCEPT	IN PRINCIPLE.		
Comment Type ER missing parentheses	Comment Status D		PSE SD	<i>CI</i> 33 Picard, Je	SC 33.2.8.5 an	P 109 Texas Instr	L 16 ruments	# 81
SuggestedRemedy Middle flowchart: (higher Right flowchart: (higher Proposed Response PROPOSED ACCEPT.	_2p = sec) Response Status W			type 3 "Type signa	3 and Type 4 PS ure PD shall rea	Comment Status D nt is incorrect in case when to do inrush with only one 2 SEs that apply power to bot ch the POWER_ON state of	2P channel. h pairsets when c	connected to a single-
C/ 33 SC 33.2.5.12 Picard, Jean	P 87 Texas Instrur	L 40	# 79	transi	ig with the first pa tioning into the P ne within this tim	OWER_UP state. The sec	ond pairset may ti	ransition to POWER_UP
Comment Type ER	Comment Status D I title is already used somew		PSE SD	Suggeste Repla	dRemedy ce with this:			
SuggestedRemedy Replace with this	SET_PRI. Refer to Picard_0		10	reach pairse	the POWER_ON t transitioning inf	SEs that have assigned Cla N state on both pairsets wit to the POWER_UP state, v within this time period."	hin TInrush-2P m	ax, starting with the first
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			•	Response POSED ACCEPT	Response Status W		
OBE by 118.				TFTD				
				reach pairse	the POWER_ON t transitioning inf	SEs that have assigned Cla N state on both pairsets wit to the POWER_UP state, a ne within this time period."	hin TInrush-2P m	ax, starting with the first

CI 33 SC 33.2.8.7 P 111 L 9 # 82 Picard, Jean Texas Instruments Texas Instruments	CI 33 SC 33.2.5 P 56 L 13 # 83 Schindler, Fred Seen Simply, Broadco
Comment TypeTRComment StatusDPSE PowerThere is an issue with allowing a Type 4 PSE to apply a 1.3A Upperbound template for as long as 4 seconds over 2P when powering a SS PD with Class 6 or lower or DS PD with class 4 or lower. That level of stress for so long can damage components that are not selected for this amount of energy, for example the data transformers of Mag Jacks.SuggestedRemedy Require Type 4 PSEs to apply the "Type 3 operating current template" when powering a Type 1-3 PD .This means the following sentence: "For Type 4 PSEs, Figure 33–29, Equation (33–17) and Equation (33–20) apply when connected to Type 4 PD, otherwise Figure 33–28, Equation (33–16) and Equation (33–19) apply."	Comment TypeTRComment StatusPres: SchindlerVariable 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.New PSE Types are required to do physical classification so the facility to change electrical parameters is not required or included in the Type 3 and 4 SD. Remove the unnecessary use of parameter_type in new text. This comment may be covered in
Proposed Response Response Status W PROPOSED ACCEPT. 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	schindler_3bt_01_05_16. SuggestedRemedy Strike lines 40 to 45 on page 65. Proposed Response Response Status W WFP TFTD

CI 33 SC 33.2.7 P94 L	L 32 # 84	C/ 33 SC 33.3.	3.5	P 124	L 3	# 86
Schindler, Fred Seen Simply, Broad	lco	Schindler, Fred	S	een Simply, Bro	oadco	
Comment Type TR Comment Status D	PSE Class	Comment Type TR	Comment Sta	atus D		Editoria
Clause 33 is designed to permit understanding of the requ after reading mainly the relevant PSE or PD subsections. understanding of the PSE classification section add refere provides details on classification event response interpreta	To aid the reader in ences to the PD section that	request should app SuggestedRemedy	6, comment 248 may oly to legacy state dia		tely implemer	nted. I believe the
SuggestedRemedy		Implement the acc "Replace all square	epted solution, e brackets with parer	thesis in state c	liagrams."	
Modify existing text, "The assigned Class is the results of the PDs requested C events produced by the PSE as shown in Table 33–11 and		Proposed Response TFTD	Response Sta	tus W	-	
with,			o leave the existing - ests). Does this inclu		nachine alone	e (except for
"The assigned Class is the results of the PDs requested C single-signature PDs and Table 33-25 for dual-signature P		C/ 33 SC 33.2.	3.8	P 127	L 38	# 87
events produced by the PSE as shown in Table 33–11 and		Schindler, Fred	S	een Simply, Bro	padco	
Proposed Response Response Status W		Comment Type TR	Comment Sta			PD S
PROPOSED ACCEPT IN PRINCIPLE.		Existing sentence,	"tpowerdly_timer		rawing more t	than Type 1 power and
	ences only add confusion to the	Existing sentence, A timer used to pre Type 4 PDs from drawing in Table 33–28." Incorrectly	"tpowerdly_timer event Type 2 and Typ more than Class 2 po covers Type 2 PDs	be 3 PDs from d	PSE's inrush	than Type 1 power and period; see Tdelay-2P
PROPOSED ACCEPT IN PRINCIPLE. I don't agree with your comment, I believe the extra referent sentence. However you did find a grammatical error Change "PDs" to "PD's"	ences only add confusion to the	Existing sentence, A timer used to pre Type 4 PDs from drawing in Table 33–28." Incorrectly covered by legacy	"tpowerdly_timer event Type 2 and Typ more than Class 2 po covers Type 2 PDs	be 3 PDs from d	PSE's inrush	than Type 1 power and period; see Tdelay-2P
PROPOSED ACCEPT IN PRINCIPLE. I don't agree with your comment, I believe the extra referent sentence. However you did find a grammatical error Change "PDs" to "PD's"	L 30 # 85	Existing sentence, A timer used to pre Type 4 PDs from drawing in Table 33–28." Incorrectly covered by legacy SuggestedRemedy	"tpowerdly_timer event Type 2 and Typ more than Class 2 pe covers Type 2 PDs text on p123.	e 3 PDs from d ower during the in the Type 3 an	PSE's inrush	than Type 1 power and period; see Tdelay-2P
PROPOSED ACCEPT IN PRINCIPLE. I don't agree with your comment, I believe the extra reference sentence. However you did find a grammatical error Change "PDs" to "PD's" Cl 33 SC 33.3 P 103 L Schindler, Fred Seen Simply, Broad Comment Type TR Comment Status D Table 33-17, item 12, was edited to address D1.6 commer referenced on the Class-4 row, Min. column is missing.	L 30 # 85 dco PSE Power	Existing sentence, A timer used to pre Type 4 PDs from drawing in Table 33–28." Incorrectly covered by legacy SuggestedRemedy Replace the sente A timer used to pre	"tpowerdly_timer event Type 2 and Typ more than Class 2 pr covers Type 2 PDs text on p123. here with,"tpowerdly_t event Type 3 PDs fro	be 3 PDs from d ower during the in the Type 3 an imer m drawing more	PSE's inrush nd 4 section.	than Type 1 power and period; see Tdelay-2P Type 2 PDs are
PROPOSED ACCEPT IN PRINCIPLE. I don't agree with your comment, I believe the extra reference sentence. However you did find a grammatical error Change "PDs" to "PD's" C/ 33 SC 33.3 P 103 L Schindler, Fred Seen Simply, Broad Comment Type TR Comment Status D Table 33-17, item 12, was edited to address D1.6 commen	L 30 # 85 dco <i>PSE Power</i> nt 254. However, the footnote	Existing sentence, A timer used to pre Type 4 PDs from drawing in Table 33–28." Incorrectly covered by legacy SuggestedRemedy Replace the sente A timer used to pre PDs from drawing in Table	"tpowerdly_timer event Type 2 and Typ more than Class 2 po covers Type 2 PDs text on p123. nce with, "tpowerdly_t event Type 3 PDs fro more than Class 2 po <i>Response Sta</i>	ee 3 PDs from d ower during the in the Type 3 an imer m drawing more ower during the	PSE's inrush nd 4 section.	than Type 1 power and period; see Tdelay-2P Type 2 PDs are power and Type 4
PROPOSED ACCEPT IN PRINCIPLE. I don't agree with your comment, I believe the extra references sentence. However you did find a grammatical error Change "PDs" to "PD's" Cl 33 SC 33.3 P 103 L Schindler, Fred Seen Simply, Broad Comment Type TR Comment Status D Table 33-17, item 12, was edited to address D1.6 comment referenced on the Class-4 row, Min. column is missing. SuggestedRemedy Add the missing footnote, "Unbalance at Class 4 is not restricted. The ILIM-2P value Class 5." Class 5."	L 30 # 85 dco <i>PSE Power</i> nt 254. However, the footnote	Existing sentence, A timer used to pre Type 4 PDs from drawing in Table 33–28." Incorrectly covered by legacy <i>SuggestedRemedy</i> Replace the sente A timer used to pre PDs from drawing in Table 33–28." <i>Proposed Response</i>	"tpowerdly_timer event Type 2 and Typ more than Class 2 po covers Type 2 PDs text on p123. nce with, "tpowerdly_t event Type 3 PDs fro more than Class 2 po <i>Response Sta</i>	ee 3 PDs from d ower during the in the Type 3 an imer m drawing more ower during the	PSE's inrush nd 4 section.	than Type 1 power and period; see Tdelay-2P Type 2 PDs are power and Type 4
PROPOSED ACCEPT IN PRINCIPLE. I don't agree with your comment, I believe the extra references sentence. However you did find a grammatical error Change "PDs" to "PD's" Cl 33 SC 33.3 P 103 L Schindler, Fred Seen Simply, Broad Comment Type TR Comment Status D Table 33-17, item 12, was edited to address D1.6 comment referenced on the Class-4 row, Min. column is missing. SuggestedRemedy Add the missing footnote, "Unbalance at Class 4 is not restricted. The ILIM-2P value Class 5."	L 30 # 85 dco <i>PSE Power</i> nt 254. However, the footnote	Existing sentence, A timer used to pre Type 4 PDs from drawing in Table 33–28." Incorrectly covered by legacy <i>SuggestedRemedy</i> Replace the sente A timer used to pre PDs from drawing in Table 33–28." <i>Proposed Response</i>	"tpowerdly_timer event Type 2 and Typ more than Class 2 po covers Type 2 PDs text on p123. nce with, "tpowerdly_t event Type 3 PDs fro more than Class 2 po <i>Response Sta</i>	ee 3 PDs from d ower during the in the Type 3 an imer m drawing more ower during the	PSE's inrush nd 4 section.	than Type 1 power and period; see Tdelay-2P Type 2 PDs are power and Type 4

C/ 33 SC 33.3.4 P 131 L 9 # 88	C/ 33 SC 33.3.4 P 132 L 12 # 90
Criss Sciss.s.4 Fish L9 # 88 Schindler, Fred Seen Simply, Broadco	Schindler, Fred Seen Simply, Broadco
Comment TypeTRComment StatusDPD DetectionExisting 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	Comment Type TR Comment Status D Editorial Fix the last two rows of Table 33-21 so that Min and Max columns are wide enough to accommodate the numbers within each cell. Editorial SuggestedRemedy SuggestedRemedy See comment for the solution. Editorial Editorial
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." Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. OBE by 148
OBE by 251	C/ 33 SC 33.3.4 P 132 L 5 # 91 Schindler, Fred Seen Simply, Broadco
Cl 33 SC 33.3.4 P 132 L 3 # 89 Schindler, Fred Seen Simply, Broadco Comment Type TR Comment Status D Editorial Tables 33-21 and 33-22 do not use the same style as other tables.	Comment TypeTRComment StatusDEditorialRelated to a comment marked COMMENT-1.Tables 33-21 and 33-22 use Rdetect as a Symbol (indirectly) as a reference for different conditions.
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.	SuggestedRemedy Replace the Rdetect in Table 33-22 with Rdetect_invlaid. Proposed Response Response Status W PROPOSED ACCEPT.
Proposed Response Response Status W PROPOSED REJECT.	
Why is this a technical comment?	
If none of the parameters from these tables are referenced by name in the draft, why do they need Item numbers and symbols?	

TFTD

CI 33	SC 33.3.7.3	P 141 L 35	# 92	C/ 33	SC	33.3.7.6	P145 L4	2 # 94
Schindler,	, Fred	Seen Simply, Broadco		Schindler,	Fred		Seen Simply, Broadco	-
Comment	Type TR	Comment Status D	Editorial	Comment	Туре	TR	Comment Status X	
Tanta		and some sub-second data also to the sub-second sub-second by f ec	and the factor and at	Deser		and the state of	4 OOAE and the second second second the	e e e e d'anne e e el de el el e

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

SuggestedRemedy

Existing text:

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

Corrected:

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

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

While factually correct, the new text doesn't actually provide any clarity on what Cport and Cport-2P are...

TFTD, new text is welcome.

CI 33	SC 33.3.7.3	P 142	L 2
Schindler	, Fred	Seen Simply, I	Broadco

Comment Type TR Comment Status D

93

PSF Inrush

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

SuagestedRemedv

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

Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.

Again, while factually correct the new text doesn't distinguish between what is seen on a pairset vs seen at the PI, which is the entire point of the figure.

Better text is welcome.

TFTD.

indler, Fred		Seen Simply, Broadco	
nment Type	TR	Comment Status X	PD Power

Presentation, schindler_1_0915, provides an over view of this section and the details used to add new Types to this section. This section was created to prevent a PSE disconnecting a PD by providing requirements for PDs being subject to PSE transients. Legacy devices used associated Type with a class, and the PSE Type determined ILIM and TLIM limits that the PD need to remain below. New Types support legacy classes using different ILIM and TLIM values. It would be better to base operational requirements of ILIM and TLIM based on assigned PD class.

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

SuggestedRemedy

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

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

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

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

Proposed Response Response Status W

TFTD as requested.

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 94

CI 33 SC 33.3.7.6 P 145 L 40 # 95 Schindler, Fred Seen Simply, Broadco	C/ 33 SC 33.6.3.3 P 172 L 35 # 97 Schindler, Fred Seen Simply, Broadco Seen Simply, Broadco			
Comment Type T Comment Status D Free Related to a comment marked COMMENT-1.	Comment Type ER Comment Status D Editori Editor's notes use comment number references without reference to which draft was commented on.			
SuggestedRemedy	SuggestedRemedy From now on, please reference using style D1.6 #48, where this example references Draft			
Proposed Response Response Status Z	1.6 comment #48.			
REJECT.	Proposed Response Response Status W			
This comment was WITHDRAWN by the commenter.	PROPOSED ACCEPT.			
No Comment let alone a remedy.	Editor to note.			
C/ 33 SC 33.4.2 P 151 L 28 # 96	C/ 33 SC 33.6.3.5 P 175 L 9 # 98			
Schindler, Fred Seen Simply, Broadco	Schindler, Fred Seen Simply, Broadco			
Comment Type TR Comment Status X A	S Comment Type TR Comment Status X Pres: Schindle			
The concerns of D1.6 comments 272 remain unaddressed. The Fault tolerance section covers cases where a PSE is subjected to faults like link section conductor shorts. This section should contain similar requirements for new PDs s that they continue operating after a link segment conductor open fault has been removed <i>SuggestedRemedy</i>	The San Antonio 2014 meeting presentation, Mutual_ID_PD_updated, change variable pse_dll_power_type to pse_dll_power_level and added variable pse_power_level for Typ 3 and 4 state diagrams. This was probably done because Type no longer indicates the power being provided. Unfortunately, this change: 1. Broke legacy DLL power control.			
Add the following text before the third paragraph of the called out section.	2. Broke DLL classification for new Types.			
"Type-3 and Type-4 PDs shall withstand one or more conductor open failures within the link section without damage when powered by any PSE."	LLDP and the SD on p175 work together to provide LLDP field values. To reported PSE Type and not class, we need access to variable that reports Type.			
Proposed Response Response Status W	SuggestedRemedy			
TFTD	This comment may be covered in schindler_3bt_01_05_16.			
	Proposed Response Response Status W WFP			

Cl 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 D DLL	Comment Type TR Comment Status X Pres: Schindler
It is incorrect to state that a thing has human properties, liking seeing. SuggestedRemedy Existing text:	Accepted draft 1.4 comments broke extended power operation using LLDP and DLL. An ad hoc meeting reviewed these concerns during D1.5 review cycle and a very busy person was not able to complete a solution for the D1.6 review cycle.
If the PSE sees a change to the previously stored MirroredPDRequestedPowerValue, it recognizes a request by the PD to change its power allocation.	SuggestedRemedy 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.	Proposed Response Response Status W WFP
Proposed Response Response Status W	TFTD
PROPOSED ACCEPT IN PRINCIPLE. If the PSE previously stored MirroredPDRequestedPowerValue changes, a request by the PD to change its power allocation is recognized.	C/ 33 SC 33.2.5.9 P 66 L 39 # 102 Stover, David Linear Technology
C/ 33 SC 33.6.4.1 P 176 L 44 # 100 Schindler, Fred Seen Simply, Broadco Comment Type TR Comment Status D DLL	Comment Type E Comment Status D Editoria "dual-signature" is hyphenated and not capitalized, per our convention. There are 4 locations where this convention is not followed. SuggestedRemedy Global search and replace "dual signature" with "dual-signature". SuggestedRemetration SuggestedRemetration
It is incorrect to state that a thing has human properties, liking seeing. SuggestedRemedy Existing text: If the PD sees a change to the previously stored MirroredPSEAllocatedPowerValue or	Proposed Response Response Status W PROPOSED ACCEPT.
local_system_change is asserted by the PD so as to change its power allocation, it enters the PD POWER REVIEW state.	C/ 33 SC 33.2.5.9 P 67 L 44 # 103 Stover, David Linear Technology Linear Technology Linear Technology
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.	Comment Type T Comment Status D PSE St The variable dll_4PID is redundant with pd_dll_power_type. SuggestedRemedy SuggestedRemedy
Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE.	Remove dll_4PID. Replace logic in POWER_ON state as follows: From: (dll_4PID + ((pd_req_pwr > 4) * (pse_avail_pwr > 4)) + (mr_pse_ss_mode = 1)) To: ((pd_dll_power_type > 2) + ((pd_req_pwr > 4) * (pse_avail_pwr > 4)) + (mr_pse_ss_mode = 1))
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.	Proposed Response Response Status W PROPOSED ACCEPT.

C/ 33 SC	33.2.5.9	P 70	L 19	# 104	C/ 33	SC	33.2.5.9	P 7	3	L 32	# 106
tover, David		Linear Techno	ology		Stover, Da	avid		Linea	r Technol	ogy	
Comment Type	TR	Comment Status X		PSE SD	Comment	Туре	т	Comment Status	D		PSE SL
		D_pri is inconsistent with as			"Shall	l" stater	ment poten	tially in conflict with	optional F	PSE behavior.	
		been established by confirm that a device classified as a			Suggeste	dReme	dy				
SuggestedReme							SEs shall is	sue no more Class	events that	an the Class the	ey are capable of
Replace varia	able definiti	on as follows: "This variable ype 3 or Type 4 PD."	indicates that a	device on the primary	With: capab	ole of su		e 4 PSEs shall issue inless a class reset e			han the Class they are s and mark event
Proposed Respo	nse	Response Status W			count						
TFTD.					Proposed	,		Response Status	w		
See 144					PROF	POSED	ACCEPT	IN PRINCIPLE.			
Stover, David Comment Type Definition of p indicates that	t 4PID has	P 70 Linear Techno Comment Status X D_sec is inconsistent with a been established by confirm that a device classified as a	ssignment in PS ing that both pa	irsets have a valid	capat TFTD	"Type (ble of su	upporting b	e 4 PSEs shall issue etween the last PD between the last tim	eset and	a transition to F	_
SuggestedReme					C/ 33	SC	33.2.5.10	P 7	3	L 43	# 107
00	,	on as follows: "This variable	indicates that a	device on the	Stover, Da	avid		Linea	r Technol	ogy	
		fied as a Type 3 or Type 4 F			Comment	Туре	т	Comment Status	D		PSE SI
Proposed Respo TFTD	nse	Response Status W			_		defined but of D1.6.	never used in PSE	SD. I beli	eve we intentior	nally removed this from
					Suggeste	dReme	dy				
See 173					Remo	ove tcc_	_timer from	list of Type 3 and T	/pe 4 time	ers.	
					Proposed	Respo	nse	Response Status	w		
					,		ved it from timer or no	,	ext. Wha	at is the intentio	on moving forward? Do
					TFTD)					

C/ 33 SC 33.2.5.11 P 76 L 17 # 108 Stover, David Linear Technology Linear Technology	C/ 33 SC 33.2.5.12 P 81 L 8 # 110 Stover, David Linear Technology Linear Technology Linear Technology
Comment Type T Comment Status X PSE SD Propose we add an additional connection check result to express, for example, that the status of the link segment has changed during do_cxn_chk. PSE SD	Comment Type T Comment Status X PSE SL Conditional logic in SS state diagram (POWER_UP) may be simplified with no change to function.
SuggestedRemedy	SuggestedRemedy
Add a result to sig_type: "Invalid: Neither open circuit, nor single-signature PD, nor dual- signature PD connection check signature has been found." <i>Proposed Response</i> Response Status W	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"
TFTD.	Proposed Response Response Status W TFTD.
C/ 33 SC 33.2.5.12 P 80 L 9 # 109 Stover, David Linear Technology Linear Technology	Is this true? This seems to imply that a PD assigned class 4 or less (due to demotion) must be powered up in 4-pair mode.
Comment Type TR Comment Status D PSE SD Transition logic in conflict: Out of DETECT_EVAL, PSE can be required to follow arcs "A" and "A1" simultaneously. PSE SD	I think this breaks stuff See 73
SuggestedRemedy	
Replace: "(mr_pse_alternative != both) * (sig_pri = valid) + (det_temp = both_neither) * (sig_sec = valid)" With: "(mr_pse_alternative != both) * (det_temp = only_one) * (sig_pri = valid) + (det_temp = both_neither) * (sig_sec = valid)"	C/ 33 SC 33.2.5.12 P 81 L 20 # 111 Stover, David Linear Technology Comment Type T Comment Status X
Proposed Response Response Status W	Conditional logic in SS state diagram (POWER_ON) may be simplified with no change to function.
TFTD, see 175.	SuggestedRemedy
	Replace: "IF dll_4PID + ((pd_req_pwr > 4) * (pse_avail_pwr < 4)) + (mr_pse_ss_mode = 1)) THEN" With: "IF dll_4PID + (pd_req_pwr > 4) + (mr_pse_ss_mode = 1) THEN"
	Proposed Response Response Status W TFTD.

See response to 110.

Comment ID 111

2/33 SC 33.2.5.12 P 81 L 39 #	[‡] 112	CI 33	SC	33.2.5.12		P 85	L 30	# 114
tover, David Linear Technology		Stover, Dav	vid			Linear Techr	nology	
Comment Type TR Comment Status X	PSE SD	Comment	Туре	TR	Comment	Status X		
Transition logic from POWER_ON into POWER_DENIED is (power_not_available * !tmpdo_timer_done * etc); Transition logic from POWER_ON into IDLE is (!power_not_available * tmpdo_timer_done * etc). When power_not_available and tmpdo_timer_done are simultaneously TRU	E DSE stata	(power POWE * etc). TRUE,	r_not_a ER_ON When , secon	vailable_s _SEC into power_not	ec * !tmpdo IDLE_SEC _available_s ate machine	_timer_done_se is (!power_not_ sec and tmpdo_		on logic from tmpdo_timer_sec_done are simultaneously
machine cannot transition to either IDLE or POWER_DENIED states.	L, FOL SIALE	Suggested		,				
SuggestedRemedy				pdo_timer_ NIED_SEC		from transition	logic between PC	OWER_ON_SEC and
Remove "!tmpdo_timer_done" from transition logic between POWER_ON ar POWER_DENIED.	nd	Proposed I	Respor	ise	Response	Status W		
Proposed Response Response Status W		TFTD						
TFTD.		See 11	12, 113					
Don't we want the SD to transition to IDLE if tmdpo expires?		C/ 33	SC	33.2.5.12		P 86	L 1	# 115
I believe the Type 1/2 SD has this same issue		Stover, Dav	vid			Linear Techr	nology	
See 113, 114			5.2.7.2,		hall return to			measured IClass is
C/ 33 SC 33.2.5.12 P 83 L 32 #	[‡] 113	Suggested	-			This is not reli	ected in the PSE	5D.
Comment Type TR Comment Status X		Add tra	ansition	arcs to th				/ states as defined in
Transition logic from POWER ON PRI into POWER DENIED PRI is		33.2.7. Proposed I					, "IClass >= IClas	SS_LIM [®] .
(power_not_available_pri * !tmpdo_timer_done_pri * etc). Transition logic fro POWER_ON_PRI into IDLE_PRI is (!power_not_available_pri * tmpdo_time		TFTD	Respon	ISE	Response	Status W		
etc). When power_not_available_pri and tmpdo_timer_pri_done are simultar primary alt state machine cannot transition into either IDLE_PRI or POWER states.	neously TRUE,					the state diagra	am? This was no	ot in the Type 1/2 SD
SuggestedRemedy								
Remove "!tmpdo_timer_pri_done" from transition logic between POWER_O POWER_DENIED_PRI.	N_PRI and							
Proposed Response Response Status W								
TFTD								
See 112, 114								

C/ 33 SC 33.2.5.12 P 87 L 17 # 116 Stover, David Linear Technology Linear Technology	C/ 33 SC 33.2.5.12 P 88 L 16 # 119 Stover, David Linear Technology
Comment Type T Comment Status D 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). SuggestedRemedy	Comment Type T Comment Status D PSE S 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 CLASS_EV1_LCE_SEC). SuggestedRemedy
Strike the transition arc from CLASS_EV2_PRI to MARK_EV_LAST_PRI.	Strike the transition arc from CLASS_EV2_SEC to MARK_EV_LAST_SEC.
Proposed Response Response Status W PROPOSED REJECT.	Proposed Response Response Status W PROPOSED REJECT.
I believe this is needed because we can get to class2 if the class sig is 4, right?	TFTD
In addition, we can't strike the entire arc, it is checking for other things.	See 115.
TFTD C/ 33 SC 33.2.5.12 P 87 L 19 # 117	C/ 33 SC 33.2.5.12 P 88 L 18 # 120 Stover, David Linear Technology
Stover, David Linear Technology Comment Type T Comment Status X PSE SD Transition logic from CLASS_EV2_PRI to MARK_EV2_PRI may be simplified. SuggestedRemedy 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)" Proposed Response Response Status W TFTD TFTD	Comment Type T Comment Status D PSE S Transition logic from CLASS_EV2_SEC to MARK_EV2_SEC may be simplified. SuggestedRemedy Change transition logic from CLASS_EV2_SEC to MARK_EV2_SEC as follows: "tcle2_timer_pri_done * (mr_pd_class_detected = temp_var_sec)" Proposed Response Response Status W TFTD See 115, 116.
See 116. CI 33 SC 33.2.5.12 P 87 L 36 # 118 Stover, David Linear Technology Comment Type ER Comment Status D PSE SD State CLASS_EV1_LCE_PRI should read CLASS_EV1_LCE_RESET_PRI as described in 33.2.7.2 SuggestedRemedy Change state name "CLASS_EV1_LCE_PRI" to "CLASS_EV1_LCE_RESET_PRI" Proposed Response Response Status W PROPOSED ACCEPT. V V PROPOSED ACCEPT. V V	C/ 33 SC 33.2.5.12 P 88 L 35 # 121 Stover, David Linear Technology Comment Type ER Comment Status D PSE S State CLASS_EV1_LCE_SEC should read CLASS_EV1_LCE_RESET_SEC as described in 33.2.7.2 SuggestedRemedy Change state name "CLASS_EV1_LCE_SEC" to "CLASS_EV1_LCE_RESET_SEC" Proposed Response Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. PSE S PSE S PSE S

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

CI 33	SC 33.2.5.12	P 89	L 33	# 122	CI 33	SC	33.2.7	P 96	L 1	# 125
Stover, Dav	vid	Linear Techno	ology		Stover, Da	vid		Linear T	echnology	
Comment T	Туре Т	Comment Status X		PSE SD	Comment	Туре	т	Comment Status D		PSE Clas
and the	e PSE inrush sta	DWER_ON state, both alt_xxx te diagram cycles through ID pping tinrush_xxx_timer inde	LÉ_INRUSH ar		to a du	ual-sign	ature PD	n Table 33–12 that the F for Type discovery, perf PSE available power.		pple, issue 3 class events then issue a number of
Suggested	lRemedy				Suggested	dRemec	ly			
"alt_pri Replac	i_pwrd * !pwr_ap	from IDLE_INRUSH_SEC to	_	_	detern 33.2.7	nine ade 7.2 for de	ditional in etails." Re	e 33–12: "Note: PSEs m formation about the PD eference this note in col	and negotiate pow	
					Proposed			Response Status N	1	
Proposed F	Response	Response Status W			PROP	OSED	ACCEPT	IN PRINCIPLE.		
Is this t		ype 1/2 SD has this same is			detern will the	nine ado en reset	ditional in the PD a	and reissue the correct r	and negotiate pow number of class eve	er allocation. These PSEs ents. See 33.2.7.2 for
Cl 33	SC 33.2.6	P 90	L 6	# 123	details	s." Refe	rence this	s note in column header	"Number of PSE of	class events".
Stover, Dav		Linear Techno	biogy		CI 33	SC	33.2.7	P 96	L 17	# 126
Comment T	51	Comment Status D		PSE Detection	Stover, Da	vid		Linear T	echnology	
CC_DE	ET_SEQ 3 is uni	havior is inconsistent between que in that an invalid detection			Comment		т	Comment Status D		PSE Clas
	vestigating alt_s	ec.						l able 33–11, power clas n takes precendence ov		le-signature PDs: "Data
Suggested								ation for dual-signature l		
		"A Type 3 or Type 4 PSE det n detection on the other alterr		d PD signature on either	Suggested	Remec	ly			
Proposed F	Response	Response Status W						e 33–12: "Note: Data Lir assification."	nk Layer classificat	ion takes precendence
PROP	OSED ACCEPT.				Proposed	Respor	ise	Response Status N	I	
CI 33	SC 33.2.6.1	P 90	L 39	# 124	PROP	OSED	ACCEPT			
Stover, Dav	vid	Linear Techno	ology							
Comment 7 tcc_tim		Comment Status X entionally removed from PSE	SD. but Tcc rer	Connection Check mains in Table 33-7.						
Suggested		,	,							
Remov	ve reference to T	cc on line 27, Table 33-7, an	d accompanying	g NOTE on Tcc min.						
Proposed F TFTD	Response	Response Status W								
0	77									

See 107

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

	33.2.7	P 97	L 16	# 127	CI 33		3.2.7.2	P 98	L 4	# 129
tover, David		Linear Techno	logy		Stover, Da	avid		Linear Techn	iology	
Comment Type	т	Comment Status X		PSE Class	Comment	Туре	т	Comment Status D		PSE Class
		d to investigate classification			Requi	irements	and allow	ances for 4PID, class, and	mutual identifica	ation are unclear.
		d in PSE SD; behavior descri not address PSE simply inv			Suggeste	dRemedy	/			
			esugating both		Repla	ice sente	nce: "Typ	e 3 and Type 4 PSEs may	issue a class res	set event to perform
SuggestedReme	•	A Type 3 or Type 4 PSE con	posted to a due	l signaturo PD mov		al identific				
		any pairset presenting a val						4 PSEs may issue up to 3 is incapable of supporting n		
returning to the				•				class and mark event count		
Proposed Respo	nse	Response Status W			Proposed	Respons	se	Response Status W		
TFTD					PROF	POSED A	CCEPT	N PRINCIPLE.		
See 33.					l bolic	we we al	so need t	o define "class reset" some	where Weuse	the term a lot, but is it
						ed anywh		o denne class leset some	where. We use	
	33.2.7.2	P 97	L 41	# 128	тстр					
Stover, David		Linear Techno	logy		TFTD					
Comment Type	TR	Comment Status X		Pres: Stover1	C/ 33	SC 3	3.2.7.2	P 99	L 1	# 130
There are inc	consistencie	es between Tpdc, autoclass,	and mutiple-ev	ent classification.	Stover, Da	avid		Linear Techn	ology	
SuggestedReme	dy				Comment	Туре	TR	Comment Status D		PSE Class
See stover_0)1_0516.pd	f			"If any	y measur	ed IClass	is equal to or greater than	IClass_LIM min,	a Type 2, Type 3 or
Proposed Respo	nse	Response Status W						to the IDLE state." Most im SM state machines experier		
WFP								DLE_PRI/IDLE_SEC state,		
TFTD					Suggeste			/	0	
IFID					00			is equal to or greater than	IClass LIM min.	a Type 2 PSE shall
					return	to the ID	DLE state	If any measured IClass is shall return to the appropri	equal to or great	
					Proposed	,	•	Response Status W		
					1	1				

PROPOSED ACCEPT.

C/ 33 S	SC 33.2.8	P 101	L 51	# 131	C/ 33 SC	C 33.6.3.2	P 170	L 33	# 134
Stover, David		Linear Techno	ology		Tremblay, David	ł	Hewlett Pack	ard Enter	
Comment Typ	e T	Comment Status D		PSE Power	Comment Type	ER	Comment Status D		Editoria
		ndle dual-signature PDs with ined PSE implementations.	mismatched C	lass/Type combinations		1 0	PD_DLLMAX_VALUE on lin		
SuggestedRei	-						X_VALUE, PD_INITIAL_VAI lable resolution.	LUE, and PSE_I	NITIAL_VALUE, are
values in T	Table 33-17 c	SEs powering dual-signature corresponding to the pairset o	of that PD identif	fied as the highest PD	SuggestedRem	edy			
Class."		<u>.</u>		3	Change PD	_DLL_MAX	_VALUE to PD_DLLMAX_V	ALUE	
Proposed Res PROPOSI		Response Status W IN PRINCIPLE.			Proposed Resp PROPOSEI		Response Status W		
		SEs powering dual-signature to the pairset with the highest a			CI 33 SO Yseboodt, Lenn	C 33.1.3 art	P 46 Philips	<i>L</i> 1	# 135
C/33 S	SC 33.2.8.5.1	-	L 32	# 132	Comment Type	Е	Comment Status D		Editoria
tover, David		Linear Techno	ology		"It should be	e noted that	the cable references use "D	C loop resistand	ce," which "
Comment Typ	e E	Comment Status D		Editorial	10				
						/ordv			
		phenated and not capitalized	, per our conver	ntion. There are 2		/ordy.			
locations	where this co	phenated and not capitalized nvention is not followed.	, per our conver	ntion. There are 2	SuggestedRem	edy			
locations N SuggestedRer	where this con	nvention is not followed.			SuggestedRem Less wordy:	edy			
locations N SuggestedRer Global sea	where this con medy arch and repla	nvention is not followed. ace "single signature" with "si			SuggestedRem Less wordy 	edy : The cable re	ferences use "DC loop resis	tance," which	"
locations of SuggestedRer Global sea Proposed Res	where this con medy arch and repla	nvention is not followed. ace "single signature" with "si <i>Response Status</i> W			SuggestedRem Less wordy:	edy : The cable re onse	Response Status W	tance," which	u
locations of SuggestedRer Global sea Proposed Res PROPOSI	where this con medy arch and repla sponse	nvention is not followed. ace "single signature" with "si <i>Response Status</i> W			SuggestedRem Less wordy: "7 Proposed Resp PROPOSEI	edy : The cable re onse	Response Status W	tance," which	# 136
locations of SuggestedRen Global sea Proposed Res PROPOSI	where this con medy arch and repla sponse ED ACCEPT.	nvention is not followed. ace "single signature" with "si <i>Response Status</i> W	ingle-signature"		SuggestedRem Less wordy: "7 Proposed Resp PROPOSEI	edy The cable re onse D ACCEPT.	Response Status W		
locations of SuggestedRen Global sea Proposed Res PROPOSI	where this con medy arch and repla sponse ED ACCEPT. SC 33.3.7.3	nvention is not followed. ace "single signature" with "si Response Status W P 141	ingle-signature"		SuggestedRem Less wordy: " Proposed Resp PROPOSEI CI 33 SC	edy The cable re onse D ACCEPT. C 33.1.3.2 art	Response Status W		# [<u>136</u>
locations of SuggestedRer Global sea Proposed Res PROPOSI Cl 33 Stover, David Comment Typ	where this con medy arch and repla sponse ED ACCEPT. SC 33.3.7.3 De TR	nvention is not followed. ace "single signature" with "si <i>Response Status</i> W <i>P</i> 141 Linear Techno	ingle-signature" <i>L</i> 7 blogy	# <u>133</u> Pres: Stover2	SuggestedRem Less wordy "7 Proposed Resp PROPOSEI C/ 33 SC Yseboodt, Lenn Comment Type "Within Clau	edy The cable re onse D ACCEPT. C 33.1.3.2 art E use 33 and	Response Status W P 46 Philips Comment Status D its annexes, "channel", as de	<i>L</i> 30 efined in 1.4.134	# 1 <u>36</u> Editori
locations of SuggestedRer Global sea Proposed Res PROPOSI Cl 33 S Stover, David Comment Typ PD input in	where this con medy arch and repla sponse ED ACCEPT. SC 33.3.7.3 De TR inrush current	nvention is not followed. ace "single signature" with "si <i>Response Status</i> W <i>P</i> 141 Linear Techno <i>Comment Status</i> X	ingle-signature" <i>L</i> 7 blogy	# <u>133</u> Pres: Stover2	SuggestedRem Less wordy "7 Proposed Resp PROPOSEI C/ 33 SC Yseboodt, Lenn Comment Type "Within Clau	edy The cable re onse D ACCEPT. C 33.1.3.2 art E use 33 and	Response Status W P 46 Philips Comment Status D	<i>L</i> 30 efined in 1.4.134	# <u>136</u> Editori
locations of SuggestedRer Global sea Proposed Res PROPOSI Cl 33 S Stover, David Comment Typ PD input in SuggestedRer	where this con medy arch and repla sponse ED ACCEPT. SC 33.3.7.3 De TR inrush current	nvention is not followed. ace "single signature" with "si <i>Response Status</i> W <i>P</i> 141 Linear Techno <i>Comment Status</i> X requirements are inconsister	ingle-signature" <i>L</i> 7 blogy	# <u>133</u> Pres: Stover2	SuggestedRem Less wordy: "7 Proposed Resp PROPOSEI C/ 33 SC Yseboodt, Lenn Comment Type "Within Clau path on whi	edy The cable re onse D ACCEPT. C 33.1.3.2 art E use 33 and ch the powe	Response Status W P 46 Philips Comment Status D its annexes, "channel", as de	<i>L</i> 30 efined in 1.4.134	# <u>136</u> Editori
locations of SuggestedRer Global sea Proposed Res PROPOSI Cl 33 S Stover, David Comment Typ PD input in SuggestedRer See stove	where this con medy arch and repla sponse ED ACCEPT. SC 33.3.7.3 De TR inrush current medy er_02_0516.pd	nvention is not followed. ace "single signature" with "si <i>Response Status</i> W <i>P</i> 141 Linear Techno <i>Comment Status</i> X requirements are inconsister	ingle-signature" <i>L</i> 7 blogy	# <u>133</u> Pres: Stover2	SuggestedRem Less wordy: "7 Proposed Resp PROPOSEI C/ 33 SC Yseboodt, Lenn Comment Type "Within Clau path on whi	edy The cable re onse D ACCEPT. C 33.1.3.2 art E use 33 and ch the power Power signa	Response Status W P 46 Philips Comment Status D its annexes, "channel", as de er signal passes, i.e., the link	<i>L</i> 30 efined in 1.4.134	# 1 <u>36</u> Editori
locations of SuggestedRer Global sea Proposed Res PROPOSI Cl 33 S Stover, David Comment Typ PD input in SuggestedRer See stove	where this con medy arch and repla sponse ED ACCEPT. SC 33.3.7.3 De TR inrush current medy er_02_0516.pd	nvention is not followed. ace "single signature" with "si <i>Response Status</i> W <i>P</i> 141 Linear Techno <i>Comment Status</i> X requirements are inconsisten	ingle-signature" <i>L</i> 7 blogy	# <u>133</u> Pres: Stover2	SuggestedRemu Less wordy: "7 Proposed Resp PROPOSEI CI 33 SC Yseboodt, Lenn Comment Type "Within Clau path on whi 'F SuggestedRemu	edy The cable re onse D ACCEPT. C 33.1.3.2 art E use 33 and ch the power power signa edy	Response Status W P 46 Philips Comment Status D its annexes, "channel", as de er signal passes, i.e., the link	L 30 efined in 1.4.134 section."	# 1 <u>36</u> <i>Editori</i> , refers to the electrical
locations v SuggestedRer Global sea Proposed Res PROPOSI Cl 33 S Stover, David Comment Typ PD input in SuggestedRer See stove Proposed Res WFP	where this con medy arch and repla sponse ED ACCEPT. SC 33.3.7.3 De TR inrush current medy er_02_0516.pd	nvention is not followed. ace "single signature" with "si <i>Response Status</i> W <i>P</i> 141 Linear Techno <i>Comment Status</i> X requirements are inconsisten	ingle-signature" <i>L</i> 7 blogy	# <u>133</u> Pres: Stover2	SuggestedRemu Less wordy: "7 Proposed Resp PROPOSEI Cl 33 SC Yseboodt, Lenn Comment Type "Within Clau path on whi "F SuggestedRemu "Within Clau	edy The cable re onse D ACCEPT. C 33.1.3.2 art E use 33 and ch the power cower signa edy use 33 and	Response Status W P 46 Philips Comment Status D its annexes, "channel", as de er signal passes, i.e., the link	<i>L</i> 30 efined in 1.4.134 section."	# <u>136</u> <i>Editoria</i> , refers to the electrical
locations of SuggestedRer Global sea Proposed Res PROPOSI Cl 33 S Stover, David Comment Typ PD input in SuggestedRer See stove Proposed Res	where this con medy arch and repla sponse ED ACCEPT. SC 33.3.7.3 De TR inrush current medy er_02_0516.pd	nvention is not followed. ace "single signature" with "si <i>Response Status</i> W <i>P</i> 141 Linear Techno <i>Comment Status</i> X requirements are inconsisten	ingle-signature" <i>L</i> 7 blogy	# <u>133</u> Pres: Stover2	SuggestedRemu Less wordy: "7 Proposed Resp PROPOSEI Cl 33 SC Yseboodt, Lenn Comment Type "Within Clau path on whi "F SuggestedRemu "Within Clau	edy The cable re onse D ACCEPT. C 33.1.3.2 art E use 33 and ch the power Power signa edy use 33 and ch the power signa edy	<i>Response Status</i> W <i>P</i> 46 Philips <i>Comment Status</i> D its annexes, "channel", as de r signal passes, i.e., the link ' seems strange. its annexes, "channel", as de	<i>L</i> 30 efined in 1.4.134 section."	# 136 Editoria

	D /=				D		"
CI 33 SC 33.1.3.2 Yseboodt, Lennart	P 47 Philips	L 12	# 137	C/ 33 SC 33.2.5.1.1 Yseboodt, Lennart	P 57 Philips	<i>L</i> 1	# 140
supported". But no range SuggestedRemedy Change 'Range of max "Class 3, Cla	Comment Status D a change last time to show the s have been defined, only a imum Classes supported' da ass 4, Class 4, Class 4, Class ass 4, Class 4, Class 3 to 4, C	maximum class. ta from: s 6, Class 8" to:		Type 3 and Type 4 stat	e and nomenclature (primar		·
Proposed Response PROPOSED ACCEPT. Cl 33 SC 33.2.2	Response Status W	L 31	# 138	Proposed Response WFP TFTD	Response Status W		
Yseboodt, Lennart <i>Comment Type</i> E "Midspan PSE." period	Philips Comment Status D		Editorial	Cl 33 SC 33.2.5.3 Yseboodt, Lennart Comment Type E	P 57 Philips Comment Status D	L 13	# 141 Editoria
SuggestedRemedy Change to "Midspan PS Proposed Response PROPOSED ACCEPT. Cl 33 SC 33.2.5.4	Response Status W	L 1	# 139	Type still has underline SuggestedRemedy Remove underline. Proposed Response PROPOSED ACCEPT.	Response Status W		
Yseboodt, Lennart Comment Type E Values are written on s This is hard to read. SuggestedRemedy	Philips Comment Status D ame line after word "values:" e and use tabs, like we did fo Response Status W		Editorial	end of the variable nam Same for tinrush_pri_ti SuggestedRemedy Rename alt_pri_pwrd = Rename alt_sec_pwrd Rename tinrush_pri_tir	Philips Comment Status D c_pwrd do not follow our con- ie. mer and tinrush_sec_timer. > alt_pwrd_pri => alt_pwrd_sec her => tinrush_timer_pri mer => tinrush_timer_sec Response Status W	L 18	# <u>142</u> <i>Editoria</i> ng _pri and _sec at the

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

CI 33	SC 33.2.5.9	P 6	9 L	. 11	# 143
Yseboodt,	Lennart	Philip	S		
	nent #262 / D1.6	Comment Status attempted to fix this l tion of variable mr_ps	but was only pa		
Suggested Remo	•	value corresponds wit	h" sentences	from mr_pse	_enable.
•	Response POSED ACCEPT	Response Status	W		
CI 33	SC 33.2.5.9	P 7	o L	. 18	# 144
Yseboodt,	Lennart	Philip	S		
• -		e indicates that 4PID letection signature an			
	Does not me	ention on which Alterr	native.		
Altern	s_4PID_pri: This variable ative by confirmi	e indicates that 4PID ng that both pairsets Type 3 or Type 4 PD.	have a valid de		
•	Response POSED ACCEPT	Response Status	w		
CI 33 Yseboodt,	SC 33.3.1 Lennart	P 1 Philip		. 41	# 145
	3 and Type 4 Pl	Comment Status Ds shall be capable o power on both pairsets	f accepting pov	wer on either p	Editori pairset and shall be
Suggestee	dRemedy				
Shorte "T pairse	ype 3 and Type	4 PDs shall be capab	le of accepting	power on eith	er pairset and both
	Response	Response Status	w		

PROPOSED 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

C/ 33 SC 33.3.2 P 120 Yseboodt, Lennart Philips Philips Comment Type E Comment Status D	L 31	# 146
, , , , , , , , , , , , , , , , , , , ,		110
Comment Type E Comment Status D		
Table 33-20, column "Other optional capabilities" The word "other" in the header is obsolete.		Editoria
SuggestedRemedy Remove "other" in header.		
Proposed Response Response Status W PROPOSED ACCEPT.		
Cl 33 SC 33.3.5 P 124 Yseboodt, Lennart Philips	L 1	# 147
Comment Type E Comment Status X The PD legacy state machine has the issue that it is inc SuggestedRemedy See yseboodt_05_0516_pdsmlegacy.pdf	capable of lea	Pres: Yseboodt05 aving the IDLE state.
Proposed Response Response Status W WFP		
TFTD		
C/ 33 SC 33.3.4 P 132 Yseboodt, Lennart Philips	L 11	# 148
		Editoria
Comment Type E Comment Status D Table 33-21, column widths are too narrow.		

PROPOSED ACCEPT.

CI 33 SC 33.3.5	P 133	L 22	# 149	CI 33 SC 33	.3.5.3	P 136	L 44	# 152
Yseboodt, Lennart	Philips			Yseboodt, Lennart		Philips		
Comment Type E	Comment Status D		Editorial	51		ment Status D		Editoria
"Type 1 PDs and Clas	s 1 to 3 Type 3 PDs" is hard t	o read.		"VPD rises abov (2x)	ve VPort_PD m	in" in column "Additic	onal information"	had larger font size
SuggestedRemedy				SuggestedRemedy				
Change to: "Type 1 PDs and Type	3 Class 1 to 3 PDs"			Change font size	e.			
Proposed Response	Response Status W			Proposed Response		onse Status W		
PROPOSED ACCEPT	,			PROPOSED AC				
C/ 33 SC 33.3.5.1	P 133	L 23	# 150	CI 33 SC 33	.3.7.1	P 140	L 4	# 153
Yseboodt, Lennart	Philips			Yseboodt, Lennart		Philips		
Comment Type E	Comment Status D		Editorial	Comment Type	E Com	ment Status D		Editorial
"Type 2 PDs, Class 4 t DLL classification."	to 6 Type 3 PDs, Type 4 PDs	, and dual-signat	ure PDs shall provide	"Note, VPD = VI VPD has smalle	``	x I Port-2P)" the rest of equation.		
Better to mention Type	a first then Class			SuggestedRemedy				
SuggestedRemedy	, mat, then oldas.			Change to corre	ct font size.			
,	Class 4 to 6 PDs, Type 4 PDs	, and dual-signat	ure PDs shall provide	Proposed Response PROPOSED AC	1-	onse Status W		
Proposed Response	Response Status W			0/				
PROPOSED ACCEPT	. ,				.3.7.2.1	P 140	L 50	# 154
				Yseboodt, Lennart		Philips		
C/ 33 SC 33.3.5.1 Yseboodt, Lennart	P 133 Philips	L 41	# 151	Comment Type I PPort_PD-2P in		<i>ment Status</i> D font size is larger th	an e.g. equation	Editorial 33-23.
Comment Type E	Comment Status D		Editorial	SuggestedRemedy				
				O 1 .				
"Type 2, Type 3, and 1	Гуре 4 PDs operating with a n			Change to corre	ct font size. [No	ote to self: all Eqs mu	ust be medium-si	zej.
"Type 2, Type 3, and 1				Change to corre Proposed Response		ote to self: all Eqs mu onse Status W	ust be medium-si	zej.
"Type 2, Type 3, and 1 Class 4 or higher, resp	Гуре 4 PDs operating with a n			-	e Respo		ust be medium-si	zej.
"Type 2, Type 3, and 1 Class 4 or higher, resp Class 4 sign	Type 4 PDs operating with a n bond to Single-Event classifica			Proposed Response	e Respo		ust be medium-si	zej.
"Type 2, Type 3, and 1 Class 4 or higher, resp Class 4 sign SuggestedRemedy "Type 2, Type 3, and 1	Type 4 PDs operating with a n bond to Single-Event classifica	ation with a Class	s 4 signature." draw corresponding to	Proposed Response	e Respo		ust be medium-si	zej.

C/ 33 SC 33.3.7.3 Yseboodt, Lennart	P 141 Philips	L 22	# 155	CI 33 Yseboodt,	SC 33.3.7.6 Lennart	P 145 Philips	L 23	# 158
Comment Type E "T delay-2P for each p voltage, V On_PD ." V PD has smaller font	Comment Status D airset starts when V PD cross	ses the PD powe	<i>Editorial</i> r supply turn on	<i>Comment</i> "A sin max a	<i>Type</i> E gle-signature Typ	Comment Status D e 4 PD with peak power dra capacitance of 360mF or les		
SuggestedRemedy Change to correct font Proposed Response PROPOSED ACCEPT	size Response Status W			"P Cla Suggested Add u Proposed	ass PD" has no u dRemedy nderline. Response	nderline between "P Class" a Response Status W	and "PD".	
Cl 33 SC 33.3.7.3 Yseboodt, Lennart Comment Type E "This delay is required Use "or" instead of "an	P 141 Philips Comment Status D so that the Type 2, Type 3 an Id".	L 23 nd Type 4 PD do	# 156 Editorial es not enter".	Cl 33 Yseboodt, Comment	Туре Е	P 145 Philips <i>Comment Status</i> D rent shall not exceed the PD	L 31	# 159 Editoria
SuggestedRemedy "This delay is required Proposed Response PROPOSED ACCEPT	so that the Type 2, Type 3 or Response Status W	r Type 4 PD doe	s not enter".	38) aff applie "T LIM Suggested	ter T LIM min (se d." 1" does not exist a	e Table 33-17 for a Type 1 F		
C/ 33 SC 33.3.7.5 Yseboodt, Lennart	P 143 Philips	L 46	# [157	Proposed	-	Response Status W		
SuggestedRemedy Make font size consist	ent.							
Proposed Response PROPOSED ACCEPT	Response Status W							

CI 33	SC 33.3.7.9	P 147	L 16	# 160	CI 33	SC 3	33.3.8	P 148	L 26	# 163
Yseboodt,	Lennart	Philips			Yseboodt,	Lennart		Philips		
Comment	Туре Е	Comment Status D		Editorial	Comment	Туре	Е	Comment Status D		Editoria
conduc Mode I in Tabl	ctors for Mode A B with a 100 kOl le 33-28. When '	max is applied across the PI according to Table 33-19, the hm load resistor connected sh V Port_PD-2P max is applied ictors for Mode B according to	e voltage measure nall not exceed v across the PI a	ured across the PI for V bfd max as specified t either polarity	remov	ed within	n the lim	aintain the MPS components its of T MPDO as specified in a historic positional reference	Table 33-17."	
		A with a 100 kohm load resis			Chang	ve "men ge to:	tioned al			
	two lines can be	e merged.						aintain the MPS components pecified in Table 33-17."	may have its po	ower removed within the
conduc	V Port_PD -2P	max is applied across the PI ode A or Mode B according to ther Mode with a 100 kOhm lo	Table 33-19, th	ne voltage measured	Proposed PROF	Respon POSED A		Response Status W		
		in Table 33-28."		necleu shall not exceeu	CI 33	SC 3	33.3.8	P 148	L 41	# 164
Proposed I	Response	Response Status W			Yseboodt,	Lennart		Philips		
PROP	OSED ACCEPT				Comment	Туре	Е	Comment Status D		Editoria
CI 33 Yseboodt,	SC 33.3.7.10 Lennart	P 147 Philips	L 25	# 161		e T MPS	_PD in c	Ds that detect a long first class order to draw a lower standby y where to find T LCE PD.		nge of T LCE_PD may
Comment		Comment Status D		Editorial	Suggested					
Suggested	Remedy	PD PI pair-to-pair resistance -to-pair current unbalance"	and current uni	balance"	"Туре	3 and T d in Tab	ype 4 PD	Ds that detect a long first class , may reduce T MPS_PD in o		
Proposed PROP	Response OSED ACCEPT	Response Status W			Proposed PROF	Respon: POSED A		Response Status W		
Cl 33 Yseboodt,	SC 33.3.7.10 Lennart	P 148 Philips	<i>L</i> 1	# 162	C/ 33 Yseboodt,		33.6.2	P 169 Philips	L 6	# 165
<i>Comment</i> Figure	<i>Type</i> E 33-40 has uncle	Comment Status D		Editorial	<i>Comment</i> "Type		E d 4 PSE:	Comment Status D s shall send an LLDPDU cont	aining"	Editoria
Suggested	,	p-pair current unbalance test s	setup"			-		ns underline.		
Proposed I	•	Response Status W			Suggested Remo	dRemedy				
•	OSED ACCEPT	,			Proposed		se	Response Status W		

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

CI 33 SC 33.6.3.2	P 169	L 44	# 166	C/ 79	SC 79.3.2	P 203	L 53	# 169
Yseboodt, Lennart	Philips			Yseboodt, Le	ennart	Philips		
Comment Type E	Comment Status X		Pres: Yseboodt1	Comment Ty	/pe E	Comment Status D		Editoria
LLDP can support ext	tended power in a better way.				ond paragraph in 802.1AG-20	of 79.3.2 explains that Figur	e 79-3 is a revisi	ion of the original TLV
SuggestedRemedy				denned		w further revised this TLV wit	h new capabilitie	es.
Adopt yseboodt_01_0	0516_lldpext.pdf			SuggestedR	emedy		·	
Proposed Response	Response Status W			Add the	following after	page 204, line 7:		
WFP				oonobilit		Figure 79-3 has been further Type 3 and Type 4 PSEs and		
TFTD				capabilit		ype 4 PSEs and PDs may us		
C/ 79 SC 79.3.2	P 203	L 29	# 167	Proposed Re	esponse	Response Status W		
Yseboodt, Lennart	Philips	L Z 9	# 107	PROPO	SED ACCEPT			
Comment Type E	Comment Status D		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, Le		Philips		
used for data transmis	ssion."			Comment Ty	/pe E	Comment Status D		Editorial
'sample' sh	ould be 'same' ?			The Edit		is missing the word 'Insert'.		
•	ould be 'same' ?				(At one point	is missing the word 'Insert'. something removed all the	words "insert" fro	om the draft it seems).
SuggestedRemedy	devices to draw/supply power	over the same g	eneric cabling as used	SuggestedR	(At one point	something removed all the	words "insert" frc	om the draft it seems).
SuggestedRemedy "These entities allow of for data transmission.	devices to draw/supply power	over the same g	eneric cabling as used	SuggestedR	(At one point emedy ert' before 'sec	something removed all the	words "insert" fro	om the draft it seems).
SuggestedRemedy "These entities allow of	devices to draw/supply power o " <i>Response Status</i> W	over the same g	eneric cabling as used	SuggestedR Add 'Ins Proposed Re	(At one point emedy ert' before 'sec	tions'. Response Status W	words "insert" fro	om the draft it seems).
SuggestedRemedy "These entities allow of for data transmission. Proposed Response	devices to draw/supply power o " <i>Response Status</i> W	over the same g	eneric cabling as used	SuggestedR Add 'Ins Proposed Re	(At one point lemedy ert' before 'sec esponse	tions'. Response Status W	words "insert" fro	om the draft it seems).
SuggestedRemedy "These entities allow of for data transmission. Proposed Response PROPOSED ACCEP	devices to draw/supply power o " <i>Response Status</i> W T.	-		SuggestedR Add 'Ins Proposed Re PROPO	(At one point lemedy ert' before 'sec esponse SED ACCEPT	tions'. Response Status W		
SuggestedRemedy "These entities allow of for data transmission. Proposed Response PROPOSED ACCEP CI 79 SC 79.3.2 Yseboodt, Lennart	devices to draw/supply power o <i>Response Status</i> W T.	-		SuggestedR Add 'Ins Proposed Re PROPO CI 79	(At one point lemedy ert' before 'sec esponse SED ACCEPT SC 79.3.7.1 ennart	tions'. <i>Response Status</i> W		# [171
SuggestedRemedy "These entities allow of for data transmission. Proposed Response PROPOSED ACCEP CI 79 SC 79.3.2 Yseboodt, Lennart	devices to draw/supply power of <i>Response Status</i> W T. <i>P</i> 203 Philips <i>Comment Status</i> D	-	# [<u>168</u>	SuggestedR Add 'Ins Proposed Re PROPO CI 79 Yseboodt, Le Comment Ty	(At one point remedy ert' before 'sec esponse SED ACCEPT SC 79.3.7.1 ennart <i>ype</i> E	tions'. <i>Response Status</i> W <i>P</i> 211 Philips	L 23	# [<u>171</u> <i>LLD</i> F
SuggestedRemedy "These entities allow of for data transmission. Proposed Response PROPOSED ACCEP CI 79 SC 79.3.2 Yseboodt, Lennart Comment Type E	devices to draw/supply power of <i>Response Status</i> W T. <i>P</i> 203 Philips <i>Comment Status</i> D	-	# [<u>168</u>	SuggestedR Add 'Ins Proposed Re PROPO CI 79 Yseboodt, Le Comment Ty	(At one point learnedy ert' before 'sec esponse SED ACCEPT SC 79.3.7.1 ennart ype E 79-6f on PD m	r something removed all the r tions'. Response Status W P 211 Philips Comment Status D	L 23	# [<u>171</u> <i>LLD</i> F
SuggestedRemedy "These entities allow of for data transmission. Proposed Response PROPOSED ACCEP CI 79 SC 79.3.2 Yseboodt, Lennart Comment Type E Figure 79-3 uses a dif SuggestedRemedy	devices to draw/supply power of <i>Response Status</i> W T. <i>P</i> 203 Philips <i>Comment Status</i> D	-	# [<u>168</u>	SuggestedR Add 'Ins Proposed Re PROPO Cl 79 Yseboodt, Le Comment Ty In Table SuggestedR	(At one point lemedy ert' before 'sec esponse SED ACCEPT SC 79.3.7.1 ennart ype E 79-6f on PD m emedy	r something removed all the r tions'. Response Status W P 211 Philips Comment Status D	L 23 refers to "Pairset	# 171 LLDF t Alternative A" and "B".
SuggestedRemedy "These entities allow of for data transmission. Proposed Response PROPOSED ACCEP CI 79 SC 79.3.2 Yseboodt, Lennart Comment Type E Figure 79-3 uses a dif SuggestedRemedy	devices to draw/supply power o <i>Response Status</i> W T. <i>P</i> 203 Philips <i>Comment Status</i> D fferent font than 79-2.	-	# [<u>168</u>	SuggestedR Add 'Ins Proposed Re PROPO Cl 79 Yseboodt, Le Comment Ty In Table SuggestedR	(At one point lemedy ert' before 'sec esponse SED ACCEPT SC 79.3.7.1 ennart <i>ype</i> E 79-6f on PD m <i>temedy</i> is is the PD, it	tions'. <i>Response Status</i> W <i>P</i> 211 Philips <i>Comment Status</i> D neasurements, Item 92:91 it	L 23 refers to "Pairset	# [<u>171</u> <i>LLDF</i> t Alternative A" and "B".

C/ 33 SC 33B Yseboodt, Lennart	P 232 Philips	L 36	# 172	CI 33 SC Yseboodt, Lenna	33.2.5.9	P 70 Philips	L 48	# 174
Comment Type E "When the PSE is te R ch_x < 0.1 O, the ch_x) to meet I Con to Equation (33-13)."	Comment Status D ested for channel common mod PSE shall be tested with (R loa -2P-unb requirements and R P channel resistance. Rchan is t	d_min - R ch_x) SE_min and R P	and (R load_max - R SE_max conformance	Comment Type Why use the In state diago SuggestedReme - Change to - Reverse Fa	E negation "po ram is written dy "power_availa alse/True mea e "!" in the sta	Comment Status D wer_not_available"? then (not power_not_avai		PSE S
Replace Rch_x by R Proposed Response PROPOSED ACCEF	Response Status W			PROPOSED C/ 33 SC Yseboodt, Lenna	33.2.5.12	P 80 Philips	L 9	# 175
pairsets have a valid PD.	9 P 70 Philips Comment Status D ble indicates that 4PID has bee I detection signature and that a mention on which Alternative.			(mr_pse_alte valid) Missing brac SuggestedReme	ernative [?] bo kets. dy ernative [?] b nse	Comment Status D TECT_EVAL to A1 oth) * (sig_pri = valid) + (de oth) * (sig_pri = valid)) + (de Response Status W		, , , , ,
This varial	ble indicates that 4PID has bee ning that both pairsets have a a Type 3 or Type 4 PD. <i>Response Status</i> W PT.			Cl 33 SC Yseboodt, Lenna Comment Type Figure 33-15	33.2.5.12 Int E a arc from CX not consistent dy nse uested.	P 80 Philips Comment Status X N_CHK_DETECT_EVAL htly used => what was the Response Status W		# <u>176</u>

Cl 33 SC 33.2.5.12 Yseboodt, Lennart	e P 80 Philips	L 30	# 177	<i>Cl</i> 33 <i>SC</i> 33.2.5.12 Yseboodt, Lennart	P 86 Philips	L 53	# 180
Comment Type E Figure 33-15, arc from	Comment Status D DETECT_EVAL to A:		PSE SD	Comment Type E C1 exit arrow not reada	Comment Status D		Editorial
noth_neither) * (sig_se (det_temp = only_one) valid)	both) * ((det_temp = only_or c [?] valid) + ((CC_DET_SE * tdet2det_timer_done)) + ($Q = 0) + (CC_DE$	T_SEQ = 3) *	SuggestedRemedy Widen arrow to better f Proposed Response PROPOSED ACCEPT.	Response Status W		
"sig" doesn`t exist. sig_ SuggestedRemedy Change sig to sig_pri.	_pri is meant ?			C/ 33 SC 33.2.5.12 Yseboodt, Lennart	P 89 Philips	L 3	# 181
Proposed Response PROPOSED ACCEPT	Response Status W			Comment Type E Figure 33-22, entry arc: "higest_2p" is misspelle			PSE SD
C/ 33 SC 33.2.5.12 Yseboodt, Lennart	e P 80 Philips	L 30	# 178	SuggestedRemedy Change to "highest_2P	11		
Comment Type E Figure 33-15, arc from (noth_neither) is missp			PSE SD	Proposed Response PROPOSED ACCEPT.	Response Status W		
SuggestedRemedy Change to both_neithe	r.			C/ 33 SC 33.2.6.1 Yseboodt, Lennart	P 90 Philips	L 15	# 182
Proposed Response PROPOSED ACCEPT	Response Status W				Comment Status D acts, this is not convention		Editorial
Cl 33 SC 33.2.5.12 Yseboodt, Lennart	P 80 Philips	L 30	# 179	SuggestedRemedy Change to Vvalid max.	-		
Comment Type E Figure 33-15, arc from () + (mr_pse_alternat is ambiguous	Comment Status X DETECT_EVAL to A: tive is not both) * (sig_pri is	not valid)	PSE SD	Proposed Response PROPOSED ACCEPT.	Response Status W		
SuggestedRemedy use brackets probabl () + ((mr_pse_alterna could also be	ly meant: ative is not both) * (sig_pri is ative is not both)) * (sig_pri is <i>Response Status</i> W						

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 33.2.6.7 Yseboodt, Lennart	P 93 Philips	L 51	# 183	<i>Cl</i> 33 <i>SC</i> 33.2.7 Yseboodt, Lennart	P 96 Philips	L 12	# 186
Comment Type E 4PID in PSE section i Make this consistent.	Comment Status D s named 4P-ID in PD section.		Editorial	Comment Type E Ranges are used with ke SuggestedRemedy	Comment Status D eyword "to" and not a dash.		Editorial
SuggestedRemedy				Change "4-5" into "4 to 5	5".		
Change "4P-ID" to "4 Proposed Response PROPOSED ACCEP	PID" throughout the doc. Response Status W Г.			Proposed Response PROPOSED ACCEPT.	Response Status W		
C/ 33 SC 33.2.7 Yseboodt, Lennart	P 95 Philips	L 43	# 184	Cl 33 SC 33.2.7 Yseboodt, Lennart	P 96 Philips	L 12	# 187
Comment Type E	Comment Status D	ttor to make it o	Editorial	Comment Type E Table 33-12, ranges are	Comment Status D very small, maybe better to	make it explicit.	Editorial
SuggestedRemedy Change "2 to 3" into "			Apricit.	SuggestedRemedy Change "1 to 3" into "1, Do this for all ranges in t	2, 3". his Table for the "Number of	PSE class events	" column.
Proposed Response PROPOSED ACCEP	Response Status W			Proposed Response PROPOSED ACCEPT.	Response Status W		
	is the most meaningful in this ige it, otherwise "2, 3" it is.	table. If you ag	ree, pull it out as a	See 184			
Cl 33 SC 33.2.7 Yseboodt, Lennart	P 96 Philips	L 2	# 185	C/ 33 SC 33.2.7.2 Yseboodt, Lennart	P 100 Philips	L 17	# 188
Comment Type E	Comment Status D		PSE Class	Comment Type E Table 33-15, Item 10 an	Comment Status D d 11, say "See section 33.2."	7.2".	Editorial
SuggestedRemedy Add this column, valu Proposed Response PROPOSED ACCEP	Response Status W			SuggestedRemedy Change to "See 33.2.7.2 Proposed Response PROPOSED ACCEPT.	2". Response Status W		

IEEE P802.3bt D1.7 4-Pair Power-over-Ethernet 10th Task Force review comments SC 33.2.8.4.1 C/ 33 SC 33.2.7.3 P 101 L 33 C/ 33 P 108 L 30 # 189 # 192 Yseboodt, Lennart Yseboodt, Lennart Philips Philips Comment Type E Comment Status D Autoclass Comment Type E Comment Status D **F**ditorial Autoclass margin formula is not described but is defined in this section. "Type 3 and Type 4 PSEs operating over 4-pair are subject to unbalance requirements in this section." SuggestedRemedy SuggestedRemedy "P ac margin is the minimum amount of power the PSE must add to P_Autoclass in order "This section describes unbalance requirements for Type 3 and Type 4 PSEs that operate to allocate enough power to cope with increases in channel resistance due to heating. P ac margin is defined in Equation (33-4)." over 4-pair." Proposed Response Proposed Response Response Status W Response Status W PROPOSED ACCEPT. PROPOSED ACCEPT. C/ 33 P 108 SC 33.2.8.4.1 L 39 # 193 C/ 33 SC 33.2.7.3 P 101 L 43 # 190 Yseboodt. Lennart Philips Yseboodt, Lennart Philips Comment Type E Comment Status D Editorial Comment Status D Editorial Comment Type E "Icon-2P-unb is specified for total channel common mode pair resistance from ..." "PAutoclass in Watts" dimension should not be plural. SuggestedRemedy SuggestedRemedy Change to: Change to "PAutoclass in Watt" "Icon-2P-unb applies for the total channel common mode pair resistance ranging from ..." Proposed Response Response Status W Proposed Response Response Status W PROPOSED ACCEPT IN PRINCIPLE. PROPOSED ACCEPT. Editor to check on proper usage. This seems weird to me. C/ 33 SC 33.2.8.5 P 109 L 10 # 194 C/ 33 P 106 / 1 # 191 SC 33.2.8.1 Yseboodt, Lennart Philips Yseboodt, Lennart Philips Comment Type E Comment Status D Editorial Comment Type E Comment Status D Editorial "POWER UP mode occurs on each pairset between the PSE's transition to the Class 1-4 is not allowed. POWER UP state on that pairset and either the expiration of T Inrush-2P or, for Type 1 and Type 2 PSEs that make use of legacy powerup, the conclusion of PD inrush currents SuggestedRemedy on that pairset (see 33.3.7.3 and legacy_powerup in 33.2.5.4)." Change to: "Class 1 to 4" The term "POWER UP mode" is only used 3 times in the doc. all in this section, and Proposed Response Response Status W seems to be identical to the POWER UP state. Is there a difference ? PROPOSED ACCEPT. If not => replace by POWER UP. SuaaestedRemedv Change "POWER UP mode" to "POWER UP". Change 33.2.8.5 section title to "Output current during POWER UP" Proposed Response Response Status W PROPOSED ACCEPT.

C/ 33 SC 33.2.8.5	P 110	L 9	# 195	CI 33	SC :	33.2.8.13	P 115	L 37	# 198
Yseboodt, Lennart	Philips			Yseboodt,	Lennar	t	Philips		
Comment Type E	Comment Status D		Editorial	Comment	Туре	Е	Comment Status D		Editoria
Equation 33-14 uses v Since there is	variable y1. s neither a y0 or a y2, we can	also rename it to	o 'i'.				s, when connected to a si state within T pon after de		
SuggestedRemedy				Bad Ei	nalish.				
Rename 'y1' to 'i' in Eo	quation and variable list.			Suggested	0	W			
Proposed Response PROPOSED ACCEPT	Response Status W IN PRINCIPLE.			"Type	3 and T	ype 4 PSE	s, when connected to a si T pon after completing d		
Rename it "Im". "i" se	eems like an index to somethin	ng.		Proposed I PROP	,	se ACCEPT.	Response Status W		
"Im" stands for Imax s	ince this is what the variable	represents.		01.00	00		D.44=	1.05	"
C/ 33 SC 33.2.8.5	.1 <i>P</i> 110	L 37	# 196	C/ 33 Yseboodt,		33.2.10.1.1	P 117 Philips	L 25	# 199
Yseboodt, Lennart	Philips			,					- <i>v</i>
Comment Type E	Comment Status D		Editorial	Comment		E	Comment Status D differently from every othe	or Tablo in the de	Editoria
"during the POWER_U	JP period".						differently from every our		С.
SuggestedRemedy				Suggested			otable headers (eg. "AC si	anal paramotors"	
Shorter:							to be numerical (1, 2, 3, .)
" during POWER_U Also on line 44	P"			Proposed I	Respon	se	Response Status W		
Proposed Response	Response Status W			PROP	OSED	ACCEPT.			
PROPOSED ACCEPT	1			C/ 33	SC 4	33.2.10.1.2	P 118	L 32	# 200
				Yseboodt,			Philips	L 32	# 200
C/ 33 SC 33.2.8.7	P 114	L 22	# 197						PSE MPS
Yseboodt, Lennart	Philips			Comment		E Type 1 apr	Comment Status D Type 2 requirements (the	a dashad list) stil	
Comment Type E	Comment Status D		Editorial				34 and 36/37).	e uasheu list), stil	i say the applicable in
	R_ON state may remove pow voltage no longer meets the \			Th	is is alr	eady stated	above and is not needed	l here.	
Livi when the pairset	voltage no longer meets the v	POIL_PSE-2P S	becilication.	Suggested	Remed	ly			
T LIM does not exist.				Remov	ve "the	applicable"	three times.		
SuggestedRemedy				Proposed I	Respon	se	Response Status W		
"A PSE in the POWEF LIM-2P when the pairs	R_ON state may remove pow set voltage no longer meets the	er from a pairset ne V Port_PSE-2	without regard to T P specification."	PROP	OSED	ACCEPT.			
Proposed Response	Response Status W								
PROPOSED ACCEPT	г								

C/1 SC 1	P1	<i>L</i> 1	# 201	C/ 33	SC 33.2.6.1	P 90	L 52	# 203
Yseboodt, Lennart	Philips			Yseboodt,	, Lennart	Philips		
Comment Type ER	Comment Status X		Editorial	Comment	Type ER	Comment Status D		Editorial
Do you want me to re	eset the change bars in Clause	33 for D1.8 ?				pairset rises above Vvalid m		
SuggestedRemedy						PSE shall reset the PD by bri 33-17) for at least TReset (de		
Indicate YES/NO.				,	fication."			s ie) selete performing
Proposed Response	Response Status W				This way of r	eferring to Tables is used no	where else in the	P Draft
TFTD				Currente				5 Dran.
				Suggestee				Table 00 0 during
C/1 SC 1	P 1	<i>L</i> 1	# 202			[·] pairset rises above Vvalid m PSE shall reset the PD by bri		
Yseboodt, Lennart	Philips					le 33-17, for at least TReset,		
Comment Type ER	Comment Status D		Editorial	perfor	ming classificatio	n."		
As we are preparing	for D2.0 in July, we need to be	getting rid of all I	Editor's Notes.	Proposed	Response	Response Status W		
SuggestedRemedy				PROF	POSED ACCEPT			
	Notes that do not specifically sa	y "remove prior t	o publication".	0/ 00				"
Proposed Response	Response Status W			C/ 33	SC 33.2.6.4	P 93	L 11	# 204
PROPOSED ACCEP	,			Yseboodt,	, Lennart	Philips		
				Comment	Type ER	Comment Status D		Editoiral
2	tor's note they would like to see			0	al text: "CAUTION			
	ggested remedy), please make	a note of it and b	be ready to let me			he implementer should main		through the
know when we get to	o this comment.					eliminate cross-port leakage this note is inconsistent with		
TFTD				Suggestee	dRemedv			
				00	v same style as 8	02.3-2015.		
					-			

Proposed Response Response Status W

PROPOSED ACCEPT.

Cl 33 Yseboodt,	SC 33.2.7.2 Lennart	P 97 Philips	L 48	# 205	CI 33 Yseboodt,	SC 33.2.7.2 Lennart	e P 9 Philip		# 207
	lassification signa and Table 33-14 Tables 33-1	Comment Status D ature measurements of I Clas	·		pairse Whe MARK	the Type 2 PS t V Mark . The t the PSE is in _EV_LAST_SE		(_EV2, the PSE sha all be as defined by AST, MARK_EV_L/	T ME2.
	•	ature measurements of I Clas Response Status W	s are specified i	n Table 33-14."	•	be merged with	as defined by T ME2." out changing meaning		
PROF <i>CI</i> 33	POSED ACCEPT SC 33.2.7.2	P 98	L 25	# 206	MARK specifi	_EV_LAST_SE cation shall be			IARK_EV_LAST_PRI and et V Mark . The timing
Yseboodt, Comment		Philips Comment Status D		Editorial	Proposed		Response Status T IN PRINCIPLE.	w	
LASS ASS_ PSE s currer	_EV3_PRI,CLAS EV5,CLASS_EV shall measure I C	C,CLASS_EV2,CLASS_EV2 S_EV3_SEC,CLASS_EV4,C 1_LCE_RESET_PRI, and CL lass after T Class and classif	LASS_EV4_PRI ASS_EV1_LCE_	,CLASS_EV4_SEC,CL _RESET_SEC, the	"Wher states	MARK_EV_LA		_PRI or MARK_EV_	Type 4 PSE is in the LAST_SEC, the PSE shall Il be as defined by T ME2."
"All	measurements on neasurement is r	of I Class shall be taken after eferenced from the applicatio			C/ 33 Yseboodt,	SC 33.2.7.2 Lennart	e P 9 Philip		# 208
	ng and tedious to r really true.	read. Also, "classify the PD b	based on the obs	served current" is no	Comment The ite	51	Comment Status able 33-15 has become	-	<i>Editorial</i> ms arbitrary.
	ce both by insert "In all CLASS s	ing on p98, line 25: states except CLASS_EV1_A asurement is referenced from	UTO, the PSE s the application o	hall measure I Class of V Class min to	Suggested Sort T TME1	able 33-15 in th Voltages: VCI Currents: ICla Timing: TRese	ne following way: ass, VMark, VReset ss_LIM, IMark_LIM, et, TClass, TClass_LC	E, Tpdc, TLCE, TCL	.E1, TCLE2, TCLE3,

Comment ID 208

C/ 33 SC 33.2.7.2 Yseboodt, Lennart	P 99 Philips	L 30	# 209	C/ 33 Yseboodt, Le	SC 33.2.8.5.1	P 110 Philips	L 32	# 212
Comment Type ER	Comment Status D able 33-15, item 6 is listed to	vice.	Editorial	Comment Ty _i "A Type 4 8, may in	pe ER PSE, when c plement a mi	Comment Status D onnected to a single signatu nimum I Inrush lower than de n a Type 4 PSE is connected	fined in Table 3	3-17, but not less than
Fix. Proposed Response PROPOSED ACCEPT.	Response Status W			assigned 17, it sha combinat oscillation	Class 7 or Cla I successfully on of 360 mF is during the F	ass 8 and uses a lower I Inrus power up a single-signature and a Class 2 load within T I POWER_UP period, when co 12.5ohm per pairset."	sh than which is PD comprised o Inrush-2p min wi	defined in Table 33- f a parallel thout startup
C/ 33 SC 33.2.7.3 /seboodt, Lennart	P 101 Philips	L 10	# 210			are very repetitive.		
Performs see SuggestedRemedy "If the PSE supports Au classification,"	Comment Status D Autoclass and the connecte ms a weird word here. toclass and the connected F	·		less than comprise without s	"A Type 4 PS 3, may implem 0.4A respection d of a parallel artup oscillation	E, when connected to a singlent a minimum I Inrush lowe vely. Such a PSE shall succe combination of 360 mF and a ons during the POWER_UP p e range of 0.1 ohm to Rch pe	er than defined in essfully power up a Class 2 load w period, when cor	Table 33-17, but not a single-signature PD ithin T Inrush-2p min
Proposed Response PROPOSED ACCEPT.	Response Status W			Proposed Re PROPOS	,	Response Status W IN PRINCIPLE.		
C/ 33 SC 33.2.8 Yseboodt, Lennart	P 104 Philips	L 13	# 211			onnected to a single signatu		
wastage.	Comment Status D 33-17, item 17, TRise is too	o long for this fie	<i>Editorial</i> ld causing vertical	Table 33 combinat oscillation	17 shall succe on of 360 mF is during the F	a a PSE that implements a m essfully power up a single-sig and a Class 2 load within T 20WER_UP period, when co	nature PD comp Inrush-2p min wi	orised of a parallel thout startup
POWER_ON state from	3.2.8.1 renced from 10 % to 90 % o the beginning of POWER_I ditional information field by "S	JP."	erence at the PI in	the range	of 0.1 ohm to	Rch per pairset."		
Proposed Response PROPOSED ACCEPT.	Response Status W							

Fditorial

CI 33	SC 33.2.8.5.1	P 110	L 39	# 213
Yseboodt, L	ennart	Philips		

Comment Type ER Comment Status D

"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 0.10hm to 12.50hm 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."

Proposed Response Response Status W

PROPOSED ACCEPT IN PRINCIPLE.

"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 that implements a minimum I Inrush lower than defined in Table 33-17 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."

CI 33	SC 33.2.10	<i>P</i> 116	L 14	# 214
Yseboodt, L	ennart	Philips		
Comment T	ype ER	Comment Status D		Editorial
0	33-20 shows the reference.	PSE monitor state diagrams.	."	

SuggestedRemedy

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

Proposed Response Response Status W

PROPOSED 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."

CI 33 SC	33.3.7.3	P 141	L 7	# 215
Yseboodt, Lenna	art	Philips		
Comment Type	ER	Comment Status X		Pres: Yseboodt10

The PD inrush section is particularly troublesome. How many times have we tweaked this text. It doesn't seem to improve.

SuggestedRemedy

Completely new text, adopt yseboodt_10_0516_pdinrush.pdf

Proposed Response Response Status W

WFP

TFTD

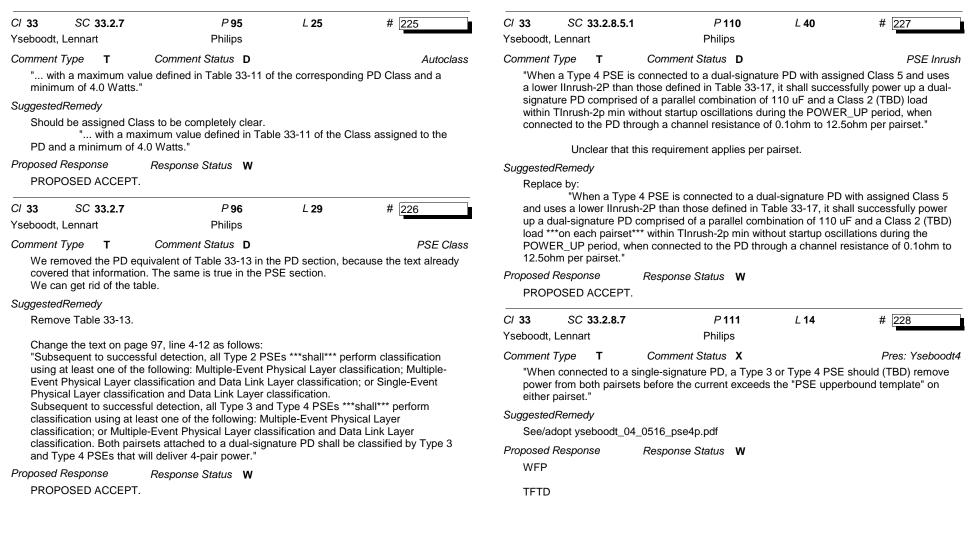
C/ 33 SC 33.3.7 P 231 L 52 # 216 C/ 33 SC 33.2.5 P 56 L7 # 218 Yseboodt, Lennart Yseboodt, Lennart Philips Philips Comment Type ER Comment Status X Annex 33B Comment Type T Comment Status X Pres: Yseboodt11 "Selected resistance values for RPSE_max and RPSE_min which provide adequate Updates to the PSE State Diagram verification to Equation (33-13) or control ICon-2P-unb value are dependent upon PSE SuggestedRemedy circuit implementation and as such are left to the designer." Adopt yseboodt_11_0516_psestatedia.pdf PARSE ERROR. Proposed Response Response Status W SuggestedRemedy WFP I don't know where to begin. What does this mean? TFTD Proposed Response Response Status W Yair? C/ 33 SC 33.2.5.8 P 65 L 40 # 219 Yseboodt, Lennart Philips TFTD PSE SD Comment Type T Comment Status D C/ 33 SC 33.2.7.2 P 99 / 20 # 217 original text: "parameter type: Values: Yseboodt, Lennart Philips 3: Type 3 PSE parameter values 4: Type 4 PSE parameter values" Comment Type TR Comment Status D PSE Class original text: "Classification events may appear on one or both pairsets." The legacy SD, uses PSE TYPE for the purpose we are now using parameter_type in the new SD. True for single-signature, not for dual. We did this, because parameter type is used in the DLL state machine. The link however Also problematic for Type 1 and Type 2 PSEs. between the DLL SM and the PSE SM needs to be properly looked at anyway and revised. SuggestedRemedy The original intent of that sentence was to allow: - "4-pair" class events for single-sig PDs - Rename parameter type to PSE TYPE. "PSE_TYPE - alternating class events between pairsets - other creative classification games A constant indicating the Type of the PSE. Values: The sentences that deal with applying Vclass already say "to the PI or pairset", granting 3: Type 3 PSE 4: Type 4 PSE" leave to do all of this. SuggestedRemedy Proposed Response Response Status W PROPOSED ACCEPT. We no longer need the quoted sentence. Remove it. Proposed Response Response Status W

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

PROPOSED ACCEPT.

C/ 33 SC 33.2.5.9 Yseboodt, Lennart	P 68 Philips	L 12	# 220	C/ 33 Yseboodt, Ler	SC 33.2.5.12 nnart	e P 79 Philips	L 1	# 223
Comment Type T highest_2p is written wit SuggestedRemedy Change to highest_2P.	Comment Status D th a small letter p.		Editorial	pse_reset I have not	into IDLE: : + error_cond : found any m	Comment Status I dition * (mr_pse) can tention of a defined ord but this is not a univers	be ambiguous er of operation. Conve	PSE S
Proposed Response PROPOSED ACCEPT.	Response Status W				kets wheneve	r ambiguity is possible dition * (mr_pse)).		
C/ 33 SC 33.2.5.9 Yseboodt, Lennart	P 70 Philips	L 39	# 221	Proposed Res PROPOS	•	Response Status	N	
5	Comment Status X ote: Mutual identification will	require a variabl	PSE SD e pd_power_type	l don't bel	ieve your inte	erpretation is correct.		
similar to pd_dll_power_	_type."			To get to	idle, mr_pse_	_enable has to be true,	so it should be ANDed	d with everything.
SuggestedRemedy Remove Editors note ar	nd rankaa it hy:			Change to	: (pse_reset	t + error_condition) * (n	nr_pse_enable = enab	le).
pd_power_type A control variable outpu	t by the PSE power control			-		se_enable have enume		,
indicates the Type of PI Values:	D as advertised through Phy	sical Link Layer	classification.	TFTD				
1: PD is a Type 1 PD or	a Type 3 PD (default) Type 3 PD, or a Type 4 PD)		C/ 33 Yseboodt, Ler	SC 33.2.5.12	e P 86 Philips	L 52	# 224
4: PD is a Type 4 PD				Comment Typ	e T	Comment Status	5	PSE S
Proposed Response	Response Status W					MARK_EV_LAST to C	1 has no condition.	
	emedy. How does it fit in w the meaning of each value		Why have you made	SuggestedRe	<i>medy</i> ition: "tme2_t	imer done"		
TFTD				Proposed Res	_	Response Status	N	
C/ 33 SC 33.2.5.10 Yseboodt, Lennart	P 75 Philips	<i>L</i> 31	# 222	•	ED ACCEPT	•		
Comment Type T	Comment Status D		PSE SD					
	gram does not use or need a	a tpdc_timer, but						
SuggestedRemedy								
Remove tpdc_timer from	n 33.2.5.10							
Proposed Response PROPOSED ACCEPT.	Response Status W							
		<i>,</i> , , , ,	I T/technical E/editorial G/g				Comment ID 224	Page 53 of 61

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



PSF MPS

C/ 33	SC 33.2.10.1.2	P 118	L 40	# 229
Yseboodt	, Lennart	Philips		

Comment Type T 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."

This final shall is inconsistenly worded compared to the "do not remove power" shalls for Type 3 and Type 4.

See: hstewart_01_0116_DC_MPS_Template_v8.pdf for what the intent was.

SuggestedRemedy

Replace by:

"- shall not remove power from the PI when DC MPS has been present within the T_MPS + TMPDO window."

Proposed Response Response Status W

PROPOSED ACCEPT.

CI 33	SC	33.2.	10.1.2	P	'118	L 40	#	230
Yseboodt	, Lenna	rt		Phi	lips			
Comment	Type	т	Co	mment Statu	ıs D			PSE MPS

"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

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 W PROPOSED ACCEPT IN PRINCIPLE.

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 for due to MPS absense when..."

TFTD

C/ 33 SC 33.2.10.1.2 P 119 L 19 # 231 C/ 33 SC 33.3.7 P 138 L 29 # 234 Yseboodt, Lennart Yseboodt, Lennart Philips Philips Comment Type **T** Comment Status D PSF MPS Comment Type T Comment Status D "A Type 3 or Type 4 PSE, when connected to a dual-signature PD: -may maintain power Table 33-28, item 8 and 9 say "single-signature PD only" and "dual-signature PD only" on a pairset if DC MPS has been present on that pairset every T MPS + T MPDO." SuggestedRemedy Remove the word 'only'. Is inconsistent in describing the timing requirements. Proposed Response SuggestedRemedy Response Status W "-may maintain power on a pairset when DC MPS has been present on that pairset PROPOSED ACCEPT. within the TMPS + TMPDO window ." C/ 33 SC 33.3.7.6 P 145 L 11 # 235 Proposed Response Response Status W Yseboodt. Lennart Philips PROPOSED ACCEPT. Comment Type T Comment Status X Pres: Yseboodt9 C/ 33 SC 33.3.3 P 121 L 13 # 232 The PD transients section contains many duplicate requirement text blocks which can be Yseboodt, Lennart Philips merged and the differences captured in a Table. We love Tables. Comment Type **T** Comment Status X Pres: Yseboodt12 SuggestedRemedy Updates to the PD State Diagram Adopt yseboodt 09 0516 pdtransient.pdf SuggestedRemedy Proposed Response Response Status W Adopt yseboodt_12_0516_pdstatedia.pdf WFP Proposed Response Response Status W WFP TFTD TFTD If only Tables felt the same way about you... C/ 33 SC 33.3.6 P 137 L1 # 233 Yseboodt, Lennart Philips Comment Type T Comment Status D PD Power "The default value of pse power level is 3. After a successful Multiple-Event Physical Layer classification has completed the pse power level is set to either 3, 4, 6, or 8. After a successful Data Link Laver classification has completed, the pse power level is set to either 1, 2, 3 or 4." Obviously impossible. SuggestedRemedy Change last sentence to: "After a successful Data Link Layer classification has completed, the pse power level is set to either 3, 4, 6 or 8." Proposed Response Response Status W PROPOSED ACCEPT.

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

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

Fditorial

C/ 33 SC 33.4.9.1.5 P 161 L 26 # 236 Yseboodt, Lennart Philips	C/ 79 SC 79.3.2.6b.3 P 208 L 31 # 238 Yseboodt, Lennart Philips Philips Philips Philips
Comment Type T Comment Status X AES	Comment Type T Comment Status X LLD
Both sections are new text. 33.4.9.1.5 Maximum link delay says "The propagation delay contribution of the Midspan PSE device shall not exceed 2.5 ns from 1 MHz to the highest referenced	In Table 79-6b and section 79.3.2.6b.3 the "PD PI" bit is described. Given the recent evolutions we made in defining single and dual signature PDs, this bit no longer serves any purpose. It can however be repurposed to make LLDP support dual-signature PDs in a proper way.
frequency."	SuggestedRemedy
33.4.9.1.6 Maximum link delay skew says "The propagation delay contribution of the Midspan PSE device shall not exceed 1.25 ns from 1 MHz to the highest referenced frequency." The requirement is the same, with different value, and it seems that 33.4.9.1.6 should say something on skew ? SuggestedRemedy	 Rename "PD PI" to "PD Mode selection" Change value of item 2 in Table 79-6b to read: "1 = PD requested power applies to Mode A pairset 0 = PD requested power applies to Mode B pairset" Change text in 79.3.2.6b.3 to read: "This field shall be set according to Table 79-6b to select the Mode for which the PD is requesting power when the power type is PD. This field shall be set to 0 when the power type is PSE."
TFTD	Proposed Response Response Status W
Is this correct ?	TFTD
Proposed Response Response Status W TFTD as requested	I would like those group members interested in LLDP to review this change as it seems substantial.
C/ 79 SC 79.3.2.6a.2 P 207 L 37 # 237	C/ 33 SC 33.2.5.9 P68 L 17 # 239
/seboodt, Lennart Philips	Yseboodt, Lennart Philips
Comment Type T Comment Status D LLDP	Comment Type TR Comment Status D PSE S
The PSE power class field is described as: "The power class field shall contain an integer value for PSE Classes defined by 33.2.6. A TLV generated by a PD shall set the field to 0000."	"mps_sum A variable indicating that the PSE uses the method consisting of measuring the sum of IPORT-2P of both pairsets to determine if the DC MPS component is present."
This doesn`t say if it should be assigned or requested Class. Assigned Class seems logical.	This does not highlight that mps_sum may only be TRUE in case of a single- signature PD.
SuggestedRemedy	0
 Remove the underline and strikethrough Change to read: "The power class field shall contain an integer value for the assigned Class by the PSE as defined in 33.2.6. A TLV generated by a PD shall have the field set to 0000." 	SuggestedRemedy "mps_sum A variable indicating that the PSE uses the method consisting of measuring the sum of IPORT-2P of both pairsets to determine if the DC MPS component is present.
	mps_sum may only be set to TRUE when connected to a single-signature PD."
Proposed Response Response Status W PROPOSED ACCEPT.	Proposed Response Response Status W

PROPOSED ACCEPT.

C/ 33 SC 33.2.5.9 P 85 L 35 # 240 C/ 33 SC 33.2.7.1 P 97 L 32 # 243 Yseboodt, Lennart Yseboodt, Lennart Philips Philips Comment Type TR Comment Status X Pres: Yseboodt7 Comment Type **TR** Comment Status D PSF Class We adopted a new MPS state diagram last cycle. "All measurements of I Class shall be taken after the minimum relevant class event timing It works great for single-signature, but does not address dual-signature, which in Table 33-15." need independent MPS. We now have T Class for this. SugaestedRemedv SuggestedRemedy Adopt yseboodt_07_0516_dsmps.pdf "All measurements of I Class shall be taken after T Class, as defined in Table 33-15." Proposed Response Response Status W Proposed Response Response Status W WFP PROPOSED ACCEPT. TFTD C/ 33 SC 33.2.7.2 P 97 L 41 # 244 C/ 33 SC 33.2.7 P 94 L 33 # 241 Yseboodt, Lennart Philips Yseboodt, Lennart Philips Comment Type **TR** Comment Status X Pres: Yseboodt8 Comment Status D PSE Class Comment Type **TR** The specification of Autoclass in the Multiple-event section can be improved. "When a PD requests a higher Class than a Type 3 or Type 4 PSE can support, the PSE SuggestedRemedy assigns the PD Class 3, 4, or 6, whichever is the highest that it can support." Adopt vseboodt 08 0516 autoclass4.pdf Doesn't take dual-signature PDs into account. Proposed Response Response Status W SuagestedRemedv WFP "When a single-signature PD requests a higher Class than a Type 3 or Type 4 PSE can support, the PSE assigns the PD Class 3, 4, or 6, whichever is the highest that it can TFTD support. When a dual-signature PD requests a higher Class than a Type 3 or Type 4 PSE can support, the PSE assigns the PD Class 3 or 4, whichever is the highest that it can support." Proposed Response Response Status W PROPOSED ACCEPT. C/ 33 SC 33.2.7 P 96 L 13 # 242 Yseboodt, Lennart Philips Comment Type TR Comment Status D Editorial Table 33-12 uses two dashes in the first column, rows 4 and 5. SuggestedRemedy Replace dash by the word 'to'. Proposed Response Response Status W PROPOSED ACCEPT.

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

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Cl 33 SC 33.2. Yseboodt, Lennart	7.2 <i>P</i> 99 Philips	L 11	# 245	C/ 33 Yseboodt	SC 33.2.8.4 , Lennart	P 106 Philips	L 25	# 247
of at least TReset - VClass	Comment Status D to the IDLE state, it shall mainta min before starting a new detect should be VReset hat same requirement holds for F	on cycle."	·	Suggeste Adop	e are several incor	Comment Status X nsistencies/errors identified in 16_power.pdf Response Status W	n the PSE power	Pres: Yseboodt2 section.
"If the PSE returns of at least TReset	to the IDLE state, it shall mainta min before starting a new detecti ates, it shall maintain the PI or p n."	on cycle. If the P	SE is in any of the	TFTD CI 33 Yseboodt	SC 33.2.10.1	.2 P 118 Philips	L 26	# 248
"When t PSE shall provide	e the sentence on page 99, line he PSE is in the state CLASS_R to the PI V Reset , subject to the	ESET_PRI or CL			SE, depending on	Comment Status D the connected Type of PD, s T MPDO values as defined ir		PSE MPS licable I Hold min, I
	Response Status W EPT IN PRINCIPLE. T states explicitely as there are using.	other states with	RESET in the name	S <i>uggeste</i> "A PS signa	E, depending on ture PD, shall use	the connected Type of PD are the applicable I Hold, I Hold		
Cl 33 SC 33.2. Yseboodt, Lennart Comment Type TR	Philips	L 13	# 246 Autoclass	Proposed	ed in Table 33-17. <i>' Response</i> POSED ACCEPT	Response Status W		
POWER_UP or SE	d TAUTO_PSE2 timing is refere T_PARAMETERS state to the F RAMETERS state no longer exis	POWER_ON stat		dual-		the connected Type of PD an II use the applicable I Hold, I 17."		
POWER_UP state	d TAUTO_PSE2 timing is refere to the POWER_ON state."	nced from the tra	nsition of the					
Proposed Response PROPOSED ACC	Response Status W							

C/ 33 SC 33.2.10. Yseboodt, Lennart	1.2 <i>P</i> 118 Philips	L 52	# 249	<i>Cl</i> 33 <i>SC</i> 33.3.4 Yseboodt, Lennart	P 131 Philips	L 9	# 251
Comment Type TR	Comment Status X		PSE MPS	Comment Type TR	Comment Status D		PD Detection
'may' that determine i	Es, connected to a single-signation for the signation of the second se	PRESENT, AE	BSENT or PRESENT	"A Type 2 PD prese Figure 33-32."	nts a non-valid detection signati	ure when in a ma	ark event state per
OR ABSENT. These can be true at the sar	requirements should not overlane time.	p, ie, only one	of those 3 conditions	SuggestedRemedy			
The 'may' statem	ent overlaps with the two shalls	for certain cor	nbinations of current.	Change to: "A Type 2, Type 3 or	r Type 4 PD"		
	e Iport-2P currents are 1mA an			Proposed Response	Response Status W		
The may stateme	nt however is also True, indicat	ing that MPS r	nay be PRESENT OR	PROPOSED ACCEI	PT IN PRINCIPLE.		
ABSENT.				We have different P	D SDs.		
To avoid overlap, SuggestedRemedy	the two shall statements need	to be made mo	bre narrow.		2, Type 3, or Type 4 PD present state per Figure 33-31, Figure		
The 'or' in the first two	shall statements for "A Type 3	or Type 4 PS	E, when connected to a				
	needs to become and 'and': and" on page 118, line 46			C/ 33 SC 33.3.8 Yseboodt. Lennart	P 149 Philips	L 29	# 252
	and" on page 118, line 49			Comment Type TR	Comment Status D		PD MPS
Proposed Response	Response Status W				ot be able to meet the IPort_MP	S specification i	. = •
TFTD				the maximum allowe	ed port voltage droop (VPort_PS ch a PD should increase its IPo	E max to VPort	PSE min with series
I don't like this remed pairset currents.	y as it implies that the PSE mu	st check both t	he sum and individual	meet the Maintain P			
C/ 33 SC 33.3.4	P 131	<i>L</i> 1	# 050	We also n	eed to mention IPort-MPS-2P f	or dual-signature	e PDs.
Yseboodt, Lennart	P 131 Philips	LI	# 250	SuggestedRemedy			
Comment Type TR	Comment Status X		Pres: Yseboodt3		ot be able to meet the IPort_MP he maximum allowed port volta		
21	e-, or a dual-signature device. T	he determinat		VPort_PSE min with	series resistance RCh). Such a portional series resistance RCh). Such a portion of the maintain Portion of the maintain Portional series and the maintain series and the mai	a PD should incr	ease its IPort min or
	ection offers zero guidance or i d to be correctly identified by co			Proposed Response PROPOSED ACCE	Response Status W		
SuggestedRemedy							
Adopt yseboodt_03_0	516 pdsia.pdf			Implement suggeste	d remedy but change Vport_PS	SE to Vport_PSE	-2P.
//dop//joobood/_oo_/							

WFP

TFTD

C/ 33	SC 33.4.2	P 151	L 26	# 253
Yseboodt,	Lennart	Philips		
Comment	Type TR	Comment Status X		AES
any of	ther wire within th	stand without damage the ap ne cable for an indefinite peri ircuit shall not exceed I LIM n	od of time. The m	nagnitude of the current
No lor	nger correct for th	ne new Types.		
Suggestee	dRemedy			
- sha - sha	II not exceed I LI II not exceed 0.8	current through such a short M-2P max, as defined in Tab 5A for Type 3 PSEs PS for Type 4 PSEs"	t circuit: le 33-17, for Type	e 1 and Type 2 PSEs
Proposed	Response	Response Status W		
TFTD				
You a and re	re taking a state eplacing it with fix es just reference SC 33B	ment that referenced I LIM m red numbers for Type 3 and the upperbound template? <i>P</i> 232 Philips		
You a and re all typ	re taking a state eplacing it with fix es just reference SC 33B Lennart	ment that referenced I LIM med numbers for Type 3 and the upperbound template?	Type 4. How doe	s that work? Shouldn't
You a and re all typ C/ 33 Yseboodt, Comment "I Cor	re taking a state eplacing it with fix es just reference SC 33B Lennart <i>Type</i> TR n_2P_unb max an	ment that referenced I LIM m ted numbers for Type 3 and the upperbound template? P 232 Philips	Type 4. How doe <i>L</i> 34	# 254 # 254 Annex 33E
You a and re all typ C/ 33 Yseboodt, Comment "I Cor pair re	re taking a state eplacing it with fix es just reference SC 33B Lennart <i>Type</i> TR n_2P_unb max an	ment that referenced I LIM m ted numbers for Type 3 and the upperbound template? P 232 Philips Comment Status D nd Equation (33-13) are spec 1 O to 12.5 O and worst case	Type 4. How doe <i>L</i> 34	# 254 # 254 Annex 33E
You a and re all typ C/ 33 Yseboodt, "I Cor pair re ICon-2 Suggestee "I Cor	re taking a state eplacing it with fix es just reference SC 33B Lennart <i>Type</i> TR n_2P_unb max an esistance from 0. 2P-unb is a minir dRemedy n-2P-unb and Equ	ment that referenced I LIM m ted numbers for Type 3 and the upperbound template? P 232 Philips Comment Status D nd Equation (33-13) are spec 1 O to 12.5 O and worst case	Type 4. How doe <i>L</i> 34 cified for total cha e unbalance cont or total channel c	# 254 # 254 Annex 33E nnel common mode ribution by a PD."