C/ 1 SC 1.4 Stewart, Heath	<i>Р</i> <b>20</b> LTC	L <b>35</b>	# 126	C/ 33 SC 1.4 Lukacs, Miklos	P <b>46</b> Silicon Labs	L <b>6</b>	# 89
Comment Type <b>T</b> Number of specified F	Comment Status X PD configurations may be redu	ced.		Comment Type E The title of the clau	Comment Status X use refers to Type 1 and 2 only.		
SuggestedRemedy See stewart_2_0116. Proposed Response	pdf Response Status <b>O</b>			SuggestedRemedy Replace the title wi System parameter Proposed Response			
C/ 25 SC 25.4.5 Yseboodt, Lennart	P <b>24</b> Philips	L 1	# 168	C/ 33 SC 1.4 Lukacs, Miklos	P <b>46</b> Silicon Labs	L 9	# 90
greater PD (see Clau	Comment Status X ASE-TX receiver in a Type 2 o use 33) shall meet the requirem es are included with the phrase ed.	ents of 25.4.7."		not mentioned any	Comment Status X about that PSEs and PDs are cate how in the refernced tables (table e the reader may think that the bas	33-1, below the	e text). This is
"A 100BASE-TX rece	eiver in a Type 2, Type 3 and T Clause 33) shall meet the requ				section from the first sentence:		
Proposed Response	Response Status O			A power system c Proposed Response	onsists consisting of a single PSE Response Status <b>0</b>	, link segment,	and a single PD."
C/ 30 SC 30 Yseboodt, Lennart	P <b>28</b> Philips	L 1	# 169	C/ <b>33</b> SC <b>2.4.1</b> Lukacs, Miklos	1 P 74 Silicon Labs	L 12	# 91
Comment Type E The test that goes aft semicolon. This is no	Comment Status X ter BEHAVIOUR of an ATTRIB t always done.	UTE should end	with a period +	Comment Type E Typo: 'in' is not req	Comment Status X		
SuggestedRemedy Bulk-fix.				SuggestedRemedy This function initiat	es the Connection Check as spec	ified in	
Proposed Response	Response Status O			Proposed Response	Response Status O		

C/ 33 SC 2.4.11

C/ <b>33</b> SC <b>2.4.11</b> .ukacs, Miklos	P <b>75</b> Silicon Labs	L <b>33</b>	# 92	C/ 33 SC 3.5.1 Lukacs, Miklos	P <b>131</b> Silicon Labs	L 17	# 94
Comment Type E	Comment Status X			Comment Type E	Comment Status X		
SuggestedRemedy	returned variable "mr_pd_class	s_detected_ pri	" is wrong	This text is nto clear "Type 1 and Type 2 classification."	enough: PDs shall present one, and only	y one, classificat	ion signature during
	e other variables returned.			SuggestedRemedy			
Proposed Response	Response Status <b>O</b>				Ds shall present one, and only events of the) classification.	one, classificati	on signature
C/ <b>33</b> SC <b>2.5.0a</b> .ukacs, Miklos	P <b>87</b> Silicon Labs	L <b>28</b>	# 93	Proposed Response	Response Status <b>O</b>		
Comment Type E	Comment Status X			C/ 33 SC 33	P 43	L <b>1</b>	# 171
This comment is about	ut Table 33–3b.			Yseboodt, Lennart	Philips		
The unit for all param			in material and	Comment Type E	Comment Status X		
•	alues are not consistent, and 3	aigit precision	is not needed.		he draft are intended to show u		
SuggestedRemedy	after the decimal separator for a		0 4. 0 2)		hange bars are the accumulati n many pages the change bar i		
Proposed Response	Response Status <b>0</b>	all values (0.4,	0.4, 0.2)	nearly no part of the			
Toposed Response	Response Status U			A possibility	which I believe will aid us in su	bacquest review	a would be to report
					every draft. It would then be cle		
C/ 33 SC 3.5.1	P 131	L <b>4</b>	# 88	touched as a result of	of the current draft cycle.		
ukacs, Miklos	Silicon Labs			Question to t	he TF: which would you prefer?	, ,	
Comment Type ER class_sig_B is left out	Comment Status X				ange bars as is ge bars for every draft		
SuggestedRemedy				SuggestedRemedy			
	Multiple-Event class signature	shall return cla	ss_sig_A and	TFTD (Task Force T	o Decide)		
class_sig_B in accord				Proposed Response	Response Status 0		
	Response Status <b>O</b>						

CI 33 SC 33

C/ 33 SC 33 Yseboodt, Lennart	P <b>43</b> Philips	L <b>1</b>	# 170	C/ <b>33</b> Johnson, F	SC 33 Peter	.1.4	P <b>46</b> Sifos Technol	L <b>36</b> ogies	# 150
Comment Type E	Comment Status X			Comment		E Co	mment Status X		
In order to prepare th amendment will look At the momer paragraph and sectio	nt we are using Change/Add/D			Footno pair-to Pair-to Suggested	ote 2: In ⊺ -pair syste -Pair unb /Remedy	ype 3 and Tyem unbalance	vpe 4 oeratoins, the cur e plicable if Dual Signatu	ire. Change "wil	l" to "may".
	endearment to 802.3-2008 rep changing at least as much as				n unbalan	ce	ns, the current per pairs	set may be impa	cted by pair-to-pair
SuggestedRemedy									
	e 33 with the following:" before indant editing instructions. <i>Response Status</i> <b>O</b>	the Clause 33 t	itle.	C/ <b>33</b> Johnson, F Comment			P <b>46</b> Sifos Technol mment Status X	L 44 ogies	# [151
SuggestedRemedy Change to: System Parameters f	P 46 Sifos Techno <i>Comment Status</i> X Type 1 and Type 2 System par for Type 1, 2, 3, and 4 System	rameters. Need	# [ <u>149</u> ] Is updating.	Class This is <i>Suggested</i> Revise Icable	4 power a awkward <i>Remedy</i> paragrap is the ma	t the PSE PI and technica th to: ximum contir	ted from PSE PI to PD  Illy incorrect because w uous current on either set consists of one pair	vire pairs don't so one or both pairs	burce power at all.
Proposed Response	Response Status O					le of carrying			and the
Cl 33 SC 33.1.4	P 46	L 17	# 172	Proposed	Response	Res	ponse Status <b>O</b>		
Class seems out of p	Philips <i>Comment Status</i> <b>X</b> me a bit clunky due to the Typ place.	e 4 power range	discussion. Using	Cl <b>33</b> Yseboodt, <i>Comment</i> Table	Type I	E Co	P <b>48</b> Philips <i>mment Status</i> <b>X</b> s column essentially is	L <b>17</b> an Autoclass ye	# 173
Change column 1 he	n to: "System parameters" ader to: "PSE Type" tries into: "Type 1, Type 2, Typ	ре 3, Туре 4"		Suggested Chang Proposed	e header		and in column use "Y	es/No".	
Proposed Response	Response Status O			roposed		A B			
	ired ER/editorial required GR						C/ 33		Page 3 of 47

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SC 33.2.0a 1/11/2016 10:45:29 AM SORT ORDER: Clause, Subclause, page, line

C/ 33 SC 33.2.0a	P 48	L 23	# 152	CI 33 SC 33.2	4 P 57	L 35	# 35			
Johnson, Peter	Sifos Techno	logies		Darshan, Yair	Microsemi					
SuggestedRemedy Split 'Type-2' row under into 2 rows with followi	0		k Layer Classification'	"Type 1 and Type 33–9, Figure 33–9 Type 3 and Type 4	Comment Status X eed to be Figure 33-10 and not 2 2 PSEs shall provide the behav continued, and Figure 33–10e. PSEs shall provide the behavi a Figure 33–10a to Figure 33–10	ior of the state dia or of the state				
Single Event   Ma	ndatory -			SuggestedRemedy						
Multiple Event   Op Remove footnote 2. Proposed Response	ional Response Status <b>O</b>			Change from: "Type 1 and Type 2 PSEs shall provide the behavior of the state diagrams shown in Figure 33–9, Figure 33–9 continued, and Figure 33–10e. Type 3 and Type 4 PSEs shall provide the behavior of the state diagrams shown in Figure 33–10a to Figure 33–10d and Figure 33–10e." To: "Type 1 and Type 2 PSEs shall provide the behavior of the state diagrams shown in Figure						
C/ 33 SC 33.2.2 Yseboodt, Lennart	P <b>50</b> Philips	L 1	# 189	33–9, Figure 33–9 Type 3 and Type 4	continued, and Figure 33–10. PSEs shall provide the behavi Figure 33–10a to Figure 33–10	or of the state				
Comment Type ER Figures 33-4* to 33-7* Should not be	Comment Status X use "2-Pair" and "4-Pair" in t capitalized.	heir captions.		Proposed Response	Response Status <b>O</b>	Ū				
SuggestedRemedy This should be "2-pair"	and "4-pair".									
Proposed Response	Response Status O									

CI 33 SC 33.2.4

33         SC 33.2.4.1         P 57         L 53         # 6           arshan, Yair         Microsemi	CI 33         SC 33.2.4.4         P 59         L 9         # 190           Yseboodt, Lennart         Philips
omment Type TR Comment Status X	Comment Type ER Comment Status X
There is missing text that clearly sets the polarity of the PSE voltages during its operating	"Iport: Output current (see 33.2.7.6)."
states as the one determined right after IDLE state. The voltage polarity of all PSE	
operating states (Detection, Connection Check, Classification, POWER_UP and POWER_ON) must be the same.	The referred section only talks about Iport-2P.
We can find the following:	SuggestedRemedy
a)Clause 33.2.5.1 Figure 33-11 and Figure 33-12, we clearly see that the polarity is the same as Vpse+ and Vpse- however there is no "shall" text involved.	Change first lines of 33.2.7.6 to:
b)Clause 33.2.6 P.92 Line 2: "The PSE shall provide VClass with a current limitation of IClass_LIM, as defined in Table 33-10 only for a pairset with a valid detection signature. Polarity shall be the same as defined for VPort_PSE-2P in 33.2.3 and timing specifications shall be as defined in Table 33-10."	"If I_Port, the current supplied by the PSE to the PI, exceeds I_CUT-2P for longer than T_CUT-2P, Type 1 and Type 2 PSEs may remove power from the PI. If I_Port-2P, the current supplied on a pairset by the PSE to the PI, exceeds I_CUT-2P for longer than T_CUT-2P, Type 3 and Type 4 PSEs may remove power from that pairset."
This text requires that Vclass polarity shall be the same as defined in 33.2.3 Table 33-2. It is not sufficiently clear that Vclass polarity should track detection voltage polarity.	Proposed Response Response Status <b>O</b>
c)Clause 33.2.6.2 P.97 Line 38-39:	C/ 33 SC 33.2.4.4 P 61 L 25 # 69
"All class event voltages and mark event voltages shall have the same polarity as defined	Schindler, Fred Seen Simply
for VPort_PSE-2P in 33.2.3."	Comment Type ER Comment Status X
This text requires that Vclass and Vmark polarity shall be the same as defined in 33.2.3. It is not sufficiently clear that Vclass polarity should track detection voltage polarity. We need to make sure that: 1.POWER_UP and POWER_ON voltage polarity per 33.2.3 is similar to detection,	To make the specification easier to comprehend replace Table 33-3 with text. The proposed text focus the reader on differences (exceptions) rather than reiterating things already covered in other parts of the specification.
<ul> <li>connection check and classification polarity.</li> <li>2.Changing polarity per the possibilities in 33.2.3 Table 33-2 is possible only after passing through IDLE state.</li> </ul>	The existing sentence above the table is, "PSEs shall meet at least one of the allowable variable definition permutations described in Table 33-3."
Currently, although the above is obvious, it is not clear from the standard that this is the	SuggestedRemedy
requirement. IggestedRemedy	Delete Table 33-3 and the associated change statement.
To add the following text in 33.2.4.1 page 57 after line 53: "The polarity of PSE voltages during its operating states (Detection, Connection Check, Classification, POWER_UP and POWER_ON) shall be the same as was used in the	Replace the called out sentence with, "Type 1 PSEs may classify using a single event. Type 2 PSEs shall use data link layer classification, covered in 33.6, when using single event classification."
Detection state and defined per Table 33-2 in 33.2.3."	Proposed Response Response Status O
	-

C/ 33 SC 33.2.4.4

C/ 33 SC 33.2.4.8 Iohnson, Peter	8 P 66 Sifos Techno	L 40	# 154	C/ 33         SC 33.2.4.9         P 67         L 28         # 205           Yseboodt, Lennart         Philips
Comment Type T	Comment Status X	logies		
Description of CC_D and both pairsets	ET_SEQ value "1" says: s for a dual-signature PD.			Comment Type TR Comment Status X class_num_events: "A variable indicating the maximum number of classification events performed by the PSE."
	ET_SEQ value "0" says: ction for a dual-signature PD.			Does not take dual signature into account.
From the state diagrasignature PD. Sugge	am, it appears that they are bo est the same phrase.	th doing parallel	detection for a dual	SuggestedRemedy "A variable indicating the maximum number of classification events performed by the PSE
SuggestedRemedy				on a pairset."
<b>č</b>	of CC_DET_SEQ value "1" to: ction for a dual-signature PD.			Works for both single and dual. Type 3 dual will produce max 3 events/pairset (and 4 is allowed and needed for single)
Proposed Response	Response Status <b>O</b>			Type 4 dual will produce max 4 events/pairset (and 5 is allowed and needed for single)
			# 450	Proposed Response Response Status <b>O</b>
/ 33 SC 33.2.4.8 ohnson, Peter	B P 66 Sifos Techno	L <b>41</b> logies	# 153	
omment Type <b>T</b>	Comment Status X			C/ 33         SC 33.2.4.9         P 68         L 1         # 155           Johnson, Peter         Sifos Technologies
behavior. However, behavior between CC as (CC_DET_SEQ=	T_SEQ describes four possibl inspecting the state diagram, I C_DET_SEQ= 0 and CC_DET_ 0 or CC_DET_SEQ= 3) throug r may be in state diagram.	don't see any d _SEQ= 3. They	ifferences in state are grouped together	Comment Type       T       Comment Status       X         The variable det_temp is described as:       A temporary variable that indicates whether a 4-pair PSE has completed detection on only one alternative
uggestedRemedy				This whole description is awkward and can be improved:
	33.2.4.8 or state diagram (Fig	ure 33-10a), or	at least make editor	SuggestedRemedy
note about this. proposed Response				Change to:
Toposed Response	Response Status <b>O</b>			A temporary variable that indicates whether a 4-pair PSE has completed detection on a first pairset but not on a second pairset. Values: 0: The PSE has either not completed detection of a first pairset or has completed
				<ul> <li>the PSE has entre not completed detection of a first pairset of has completed detection of the second pairset.</li> <li>The PSE has completed detection of a first pairset but not the second pairset.</li> </ul>

Cl 33 SC 33.2.4.9 Page 6 of 47 1/11/2016 10:45:29 AM

CI 33 SC 33.2.	4.9 P 68	L <b>26</b>	# 187	Cl 33	SC 33	2.4.9	P <b>72</b>	L 19	# 101
Yseboodt, Lennart	Philips			Schindler,	Fred		Seen Simply		
Comment Type ER	Comment Status X			Comment	Type 1	<b>R</b> Co	omment Status X		
present in the curr	nove D1.6): Variables I Port , I Po ent variable list. Section 33.2.7 o t_2_0116_v4xx.pdf is adopted, the	depends on these	. To be resolved."	behav	ior could a prrect info	llow Type 4	ation that may permit u PSEs to limit power ou is table already appear	tput to less than	class 7 power levels.
SuggestedRemedy	variable list.			Delete	Table 33	·3a.			
Remove note.				Delete	the sente	nce, on line	16		
Proposed Response	Response Status <b>O</b>			"PSEs		,	he of the allowable varia	able definition pe	rmutations described
C/ 33 SC 33.2. Yseboodt, Lennart	<b>4.9</b> <i>P</i> <b>68</b> Philips	L <b>43</b>	# 206	"Editor into ac	r's Note (re count. Re		n line-36, to D2.0): Table 33-3a r connected to a DS PD		
SM. mr_mps_v SuggestedRemedy	Comment Status X r the new SM contains mr_mps_ alid_pri and mr_mps_valid_sec valid from the variable list.		es no purpose in the		need to p	oduce 3 eve	to D2.0): Provide text ents in order to verify Ty sponse Status <b>O</b>		connected to a DS PE
Proposed Response	Response Status 0			C/ 33	SC 33	2.4.9	P <b>72</b>	L 23	# 207
				Yseboodt,	Lennart		Philips		
CI 33 SC 33.2.	4.9 P 72	L 19	# 95	Comment	Type 1	<b>R</b> Co	omment Status X		
Schindler, Fred	Seen Simply	-	"   33	Type 4		e required to -3a allows 1	be capable of 5 class ,2,4 or 5.	events.	
Comment Type ER				Suggested	Remedy				
	Table 33-3a seem to be in error.			00		e of class_n	um_events for Type 4	to "5".	
SuggestedRemedy On page 57, line 4 on page 87.	2, a reference to Table 33-3a is	in error that shou	ld point to Table 33-3b	Proposed	Response	Re	sponse Status <b>O</b>		
On page 87 line 16	6, line 20, line-40 should point to	Table 33-3b as v	vell.						
On page 72 line-50	0 Table 33-3a should reference	Table 33-3b.							
Proposed Response	Response Status O								

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

C/ 33 SC 33.2.4.9 Page 7 of 47 1/11/2016 10:45:29 AM

	.4.9	P 72	L 27	# 208	C/ 33	SC 33.2.4.10	P 73	L 13	# 105
/seboodt, Lennart		Philips			Stover, Davi	d	LTC		
Comment Type TR	Comment S	Status X			Comment Ty	vpe E	Comment Status X		
	s the allowed PSE v is in the Type 3+4 S			d not be listed (that is	SuggestedR	Remedy	refers to Table 33-3a,		mation about tdet2det
SuggestedRemedy							able 33-3a with Table 33	3-3b.	
	for Type 1 and Type aption of Table to "A		and Type 4 PSE	variable definition	Proposed Re	esponse	Response Status O		
Proposed Response	Response Si	tatus <b>O</b>			Cl <b>33</b> Johnson, Pe	SC 33.2.4.10 eter	P <b>73</b> Sifos Teo	L 15 chnologies	# 156
C/ 33 SC 33.2. /seboodt, Lennart	-	P <b>72</b> Philips	L 36	# 188		table reference	Comment Status X		
Comment Type ER		•			SuggestedR				
"Editor'a Nota (ran	nove prior to D2.0):	Table 22 2a m	ust be undated t	a taka dual ajanatura	enange	to: See Tat			
into account.	. ,			3 events in order to	Proposed Re	esponse	Response Status O		
into account. Reason: w verify Type." Not corred	hen connected to a	DS PD, PSEs	need to produce	-	Proposed Re CI 33 Schindler, Fr	SC <b>33.2.4.10</b>	Response Status O P 73 Seen Sir	L <b>33</b> nply	# [75
into account. Reason: w verify Type." Not correc the Table values a	then connected to a	DS PD, PSEs	need to produce	3 events in order to	Cl <b>33</b> Schindler, Fi Comment Ty	SC <b>33.2.4.10</b> red ype <b>ER</b>	P <b>73</b> Seen Sir Comment Status X	nply	
into account. Reason: w verify Type." Not correc the Table values a SuggestedRemedy Remove editor`s n	then connected to a ct. We might need a are correct for single	DS PD, PSEs bit of text in the and dual-sign	need to produce	3 events in order to	CI <b>33</b> Schindler, Fi Comment Ty New tex	SC <b>33.2.4.10</b> red <i>ype</i> <b>ER</b> t uses LCF to re The legacy sp	, P <b>73</b> Seen Sir	nply er. Text on page 13	2 uses the word
into account. Reason: w verify Type." Not correc the Table values a SuggestedRemedy Remove editor`s n	then connected to a ct. We might need a are correct for single note.	DS PD, PSEs bit of text in the and dual-sign	need to produce	3 events in order to	CI <b>33</b> Schindler, Fr Comment Ty New tex "finger."	SC 33.2.4.10 red <i>vpe</i> ER t uses LCF to re The legacy sp ogy.	P <b>73</b> Seen Sir <i>Comment Status</i> <b>X</b> epresent long-class-fing	nply er. Text on page 13	2 uses the word
into account. Reason: w verify Type." Not correc the Table values a SuggestedRemedy Remove editor`s n Proposed Response	then connected to a ct. We might need a re correct for single note.	DS PD, PSEs bit of text in the and dual-sign tatus <b>O</b>	need to produce the definition of cla ature.	ass_num_events, but	CI 33 Schindler, Fr Comment Ty New tex "finger." terminol SuggestedR	SC 33.2.4.10 red ype ER t uses LCF to re The legacy sp ogy. Remedy	P <b>73</b> Seen Sir <i>Comment Status</i> <b>X</b> epresent long-class-fing	nply er. Text on page 13 ass "events." Text s	2 uses the word should use existing
into account. Reason: w verify Type." Not correct the Table values a SuggestedRemedy Remove editor`s n Proposed Response	then connected to a ct. We might need a are correct for single note. Response Si	DS PD, PSEs bit of text in the and dual-sign	need to produce	3 events in order to	CI 33 Schindler, Fr Comment Ty New tex "finger." terminol SuggestedR	SC 33.2.4.10 red ype ER t uses LCF to re The legacy sp ogy. Remedy all occurrences	P 73 Seen Sir Comment Status X epresent long-class-fing ecification references cl	nply er. Text on page 13 ass "events." Text s	2 uses the word should use existing
into account. Reason: w verify Type." Not correct the Table values a SuggestedRemedy Remove editor's n Proposed Response Cl 33 SC 33.2. Stover, David Comment Type E	then connected to a ct. We might need a are correct for single note. Response Si	DS PD, PSEs bit of text in the and dual-sign tatus <b>O</b> P72 LTC Status <b>X</b>	need to produce the definition of cla ature.	# 3 events in order to ass_num_events, but # 104	C/ 33 Schindler, Fr Comment Ty New tex "finger." terminol SuggestedR Replace	SC 33.2.4.10 red ype ER t uses LCF to re The legacy sp ogy. Remedy all occurrences	P 73 Seen Sir Comment Status X epresent long-class-fing ecification references cl s of LCF with LCE. Rep	nply er. Text on page 13 ass "events." Text s	2 uses the word should use existing
into account. Reason: w verify Type." Not correct the Table values a SuggestedRemedy Remove editor's n Proposed Response Cl 33 SC 33.2. Stover, David Comment Type E tcc2det_timer defin SuggestedRemedy	then connected to a ct. We might need a are correct for single note. <i>Response St</i> .4.10 <i>Comment S</i> nition refers to Table	DS PD, PSEs t bit of text in th and dual-sign tatus <b>O</b> P72 LTC Status <b>X</b> e 33-3a, which	need to produce the definition of cla ature.	# 3 events in order to ass_num_events, but # 104	C/ 33 Schindler, Fr Comment Ty New tex "finger." terminol SuggestedR Replace	SC 33.2.4.10 red ype ER t uses LCF to re The legacy sp ogy. Remedy all occurrences	P 73 Seen Sir Comment Status X epresent long-class-fing ecification references cl s of LCF with LCE. Rep	nply er. Text on page 13 ass "events." Text s	2 uses the word should use existing
into account. Reason: w verify Type." Not correct the Table values a SuggestedRemedy Remove editor's n Proposed Response Cl 33 SC 33.2. Stover, David Comment Type E tcc2det_timer defin SuggestedRemedy	then connected to a ct. We might need a are correct for single note. <i>Response Si</i> .4.10 <i>Comment S</i>	DS PD, PSEs bit of text in the and dual-sign tatus <b>O</b> <b>P72</b> LTC Status <b>X</b> e 33-3a, which n Table 33-3b.	need to produce the definition of cla ature.	# 3 events in order to ass_num_events, but # 104	C/ 33 Schindler, Fr Comment Ty New tex "finger." terminol SuggestedR Replace	SC 33.2.4.10 red ype ER t uses LCF to re The legacy sp ogy. Remedy all occurrences	P 73 Seen Sir Comment Status X epresent long-class-fing ecification references cl s of LCF with LCE. Rep	nply er. Text on page 13 ass "events." Text s	2 uses the word should use existing

C/ 33 SC 33.2.4.10

C/ 33 SC 33.2.4.1	10 P 73	L <b>43</b>	# 209	CI 33 SC 33.2.4.	11 P 77	L <b>4</b>	# 107
seboodt, Lennart	Philips			Stover, David	LTC		
Comment Type TR	Comment Status X			Comment Type E	Comment Status X		
	new SM contains tmpdo_timer _pri and tmpdo_timer_sec sup		purpose in the SM.	Stale "and" in definiti and Type 4 PI electri	on of parameter_type: "to p cal requirement"	ick between Type	1, and Type 2, Type
SuggestedRemedy				SuggestedRemedy			
Remove tmpdo_time	er from the variable list.			Replace with "Type 1	, Type 2, Type 3, and Type 4	PI electrical requi	rement"
Proposed Response	Response Status O			Proposed Response	Response Status O		
C/ 33 SC 33.2.4.1	11 P 75	L <b>40</b>	# 10	C/ 33 SC 33.2.4.	11 P 77	L <b>12</b>	# 108
Darshan, Yair	Microsemi			Stover, David	LTC		
Comment Type TR	Comment Status X			Comment Type T	Comment Status X		
0	om mr_pd_class_detected_pri. od_class_detected_sec on pag			here." A Type 2 PSE	ote "This paragraph is a Type will only power a Type 3, 4 P	D if that PD is cap	able of operating as
SuggestedRemedy				Type 2. No additiona	I guidance on Type 2 PSE be	havior is appropria	ate.
Add class 5 to the lis mr_pd_class_detected	t of values for mr_pd_class_de ed_sec.	etected_pri and		SuggestedRemedy Strike paragraph beg	inning with "When a Type 2 P	SE powers" fro	m this section.
Proposed Response	Response Status O			Proposed Response	Response Status 0		
C/ 33 SC 33.2.4.1	11 P 77	L 1	# 106				
Stover, David	LTC						
Comment Type E	Comment Status X						
Stale "or" in definitior	n of set_parameter_type: "ar Type 3, or Type 4 PSE."	e set to values c	orresponding to either				
SuggestedRemedy	••••••						

Replace with "Type 1, Type 2, Type 3, or Type 4 PSE."

Proposed Response Response Status **0** 

C/ 33 SC 33.2.4.11

chindler, Fred Seen Simply	Proposed Response	Response Status 0		
omment Type TR Comment Status X				
This section only covers Type 3 and 4 PSEs.	C/ 33 SC 33.2.4.12	P 78	L <b>7</b>	# 109
uggestedRemedy	Stover, David	LTC		
Replace existing text,	Comment Type TR	Comment Status X		
"set_parameter_type This function is used by a PSE to evaluate the Type of PD connected to the link based on Physical		(Figure 33-10a) should com aves PISM_START, includi d).		
Layer classification or Data Link Layer classification results. The PSE's PI electrical	SuggestedRemedy	,		
requirements defined in Table 33-11 are set to values corresponding to either a Type 1, or Type 2, Type		= false" to port states "TES	T_MODE" and "F	
3, or	<b>-</b> .	·		JOADLED .
Type 4 PSE. This function returns the following variable:	Proposed Response	Response Status <b>O</b>		
parameter_type: A variable used by a PSE to pick between Type 1, and Type 2, Type 3				
and Type 4 PI electrical requirement parameter values defined in Table 33-11.	C/ 33 SC 33.2.4.12	P 78	L <b>24</b>	# 161
Values:	Yseboodt, Lennart	Philips		
1: Type 1 PSE parameter values (default)	Comment Type E	Comment Status X		
2: Type 2 PSE parameter values 3: Type 3 PSE parameter values	0	from START_CXN_CHX		
4: Type 4 PSE parameter values	Condition: do_cx	n_chk_done * (tcc_timer > t	tcc_min)	
When a Type 2 PSE powers a Type 2, Type 3 or Type 4 PD, the PSE may choose to	Not the usual wa	y to check a timer.		
assign a value of '1' to		um only, it is not a range.		
parameter_type if mutual identification is not complete (see 33.2.6) and shall assign a value of '2' to	It will evaluate as	STRUE whenever the minim	num is crossed.	
parameter_type if mutual identification is complete."	SuggestedRemedy			
	Change to: do_cxn_chk_	_done * tcc_timer_done		
With,	Proposed Response	Response Status <b>0</b>		
"set_parameter_type				
This function is used by a PSE to evaluate the Type of PD connected to the link based on				
Physical Layer classification or Data Link Layer classification results. The PSE's PI electrical				
requirements				
defined in Table 33-11 are set to values corresponding to either a Type 3 or				
Type 4 PSE. This function returns the following variable:				
parameter_type: A variable used by a PSE to pick between Type 3 and Type 4 PI electrical requirement parameter values defined in Table 33-11.				
Values:				
1: Type is not 3 or 4 (default)				
2: Type is not 3 or 4 3: Type 3 PSE parameter values				
4: Type 4 PSE parameter values				
YPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial OMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open V		C/ 33	3 3.2.4.12	Page 10 of 47 1/11/2016 10:45:29

SORT ORDER: Clause, Subclause, page, line

1/11/2016 10:45:29 AM

CI 33 SC 33.2.4.12	P 79	L 6	# 157	CI 33	SC 33.2.4.12	P 80	L <b>5</b>	# 110
Johnson, Peter	Sifos Techno	logies		Stover, Da	vid	LTC		
Comment Type <b>T</b>	Comment Status X			Comment	Туре <b>т</b>	Comment Status X		
Figure 33-10a (continue) The function DETECT	ed) _EVAL has logic that sets "st	art tpon_timer" i	f not det_temp=1.	Transi on beh		en CLASS_EVAL and POWE	ER_UP may be re	educed with no effect
What if the signature w	as invalid? tpon_timer shou	uld not apply.		Suggestea	-			
SuggestedRemedy				Replac		/ail_pwr) + ((pd_req_pwr > p	se avail owr) * (r	nse avail nwr > 2))) *
Logic in DETECT_EVA staring the tpon_timer.	L should be extended to incl	lude signature va	alidity as a condition of	ted_tin with	ner_done		, , ,	///
Proposed Response	Response Status 0			((pd_re	eq_pwr < pse_av	/ail_pwr) + (pse_avail_pwr >	2)) * ted_timer_d	lone
				Proposed	Response	Response Status 0		
C/ 33 SC 33.2.4.12		L <b>1</b>	# 158	CI 33	SC 33.2.4.12	D D D D	L <b>5</b>	# 444
Johnson, Peter	Sifos Techno	logies		Stover, Da		2 <b>P 81</b> LTC	L <b>3</b>	# 111
Comment Type T	Comment Status X					_		
Figure 33-10a (continu				Comment	51	Comment Status X		
0	problems that eventually nee a redundancy is setting alt_p		0		_on and power r	or alt state machines to loop emoval in a staggered fashic		
TRUE in both POWER	_UP and POWER_ON. See	ems like this sho	ould only happen in	Suggestea				
POWER_UP or under	some other condition in POV	VER_ON.			over_1_0116.pd	f		
2) The notion that 4-p;	air powering turns on both pa	irsets together i	f powering 4-pairs is	Proposed		Response Status <b>O</b>		
inconsistent with text e	Isewhere including 33.2.7.1	where it says:		FTOposeu	response			
	SE that has assigned Class f may transition between 2-pa							
including after the expire		an and 4-pair por	wer at any time,					
SuggestedRemedy								
	the POWER_ON (and POW power is not turned on simult							
<ol> <li>Cases such as desc</li> <li>Dual signature power classification of the oth</li> </ol>	ring where some PSE's will	power one pairs	et prior to detection /					
This could be editor co	mmont for now							
i his could be editor co	mment for now.							

C/ 33 SC 33.2.4.12

Johnson, P	SC 33.2.4.12 Peter	P <b>81</b> Sifos Technolo	L <b>32</b> ogies	# 159	C/ <b>33</b> Yseboodt, I	SC 33.2.4.12 ennart	P <b>85</b> Philips	<i>L</i> 1	# 201
Comment T Figure 3	<i>Type</i> <b>E</b> 33-10b:	Comment Status X			Comment 7 Autocla		Comment Status X still missing from the SD.		
This fig	gure is titled Type	e 3 ad Type 4 Alternative B d	ual-signature		Suggestedl Adopt y	•	S_Autoclass_PSE_v100.pdf	f	
Also, fiç	gure 33-10b is c	ontinued on 3 pages with diffe	erent titles but s	ame figure number.	Proposed F	esponse	Response Status 0		
Suggested	Remedy								
At a mi	inimum, it needs	to be changed to "Alternative	e A".		CI 33	SC 33.2.4.12	P <b>85</b>	L <b>4</b>	# 87
		Figure 33-10b (or whatever fi			Picard, Jea	ו	Texas Instrur	ments	
Seems		Seconday Pairset" rather that be more consistent with the co			Comment 7 Needs		Comment Status X Classification state diagram	m (Type 3 and 4)	for SS and DS PD
Proposed R		Response Status O			Suggestedl See CL	Remedy ASS SD present	ation (JP)		
					Proposed F	esponse	Response Status 0		
CI 33	SC 33.2.4.12		L 32	# 162					
Yseboodt, L		Philips							
	51	Comment Status X Type 3 and Type 4 Alternativ diagram"	e B dual-signat	ure pseudo-					
Suggested	Remedy								
	e to: "Type 3 and tate diagram"	d Type 4 Primary Alternative of	dual-signature <	semi>-independent					
Proposed R	Response	Response Status <b>O</b>							
			1.00	# 163					
	SC 33.2.4.12		L 33	# 163					
		Philips	L 33	# 163					
Yseboodt, L Comment T Figure :	Lennart <i>Type</i> E	Philips Comment Status X Type 3 and Type 4 Alternativ							
Yseboodt, L Comment 7 Figure 3 indeper	Lennart <i>Type</i> E 33-10c is titled " ndent PSE state	Philips Comment Status X Type 3 and Type 4 Alternativ							
indeper Suggested Change	Lennart Type E 33-10c is titled " ndent PSE state Remedy	Philips Comment Status X Type 3 and Type 4 Alternativ	e B dual-signati	ure pseudo-					

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: Clause, Subclause, page, line

C/ 33 SC 33.2.4.12 Page 12 of 47 1/11/2016 10:45:29 AM

C/ 33 SC 33.2.5	P 86	L <b>45</b>	# 7	CI 33	SC 33.2	2.5.0a	P 87	L <b>24</b>	# 112
Darshan, Yair	Microsemi			Stover, Da	ivid		LTC		
Comment Type TR	Comment Status X			Comment	Туре Е	(	Comment Status X		
	tate, the PSE shall not apply op			Mixed	precision ir	n Table 33	3-3b (eg Tcc2det,max =	0.400; Tcc,min =	0.2)
PSE has successfull 33.2.7.1**"	ly detected a valid signature ove	r that pairset, **	except as specified in	Suggestee Repla	-	with "0.4"	for Tcc2det,max and Td	et2det.max	
The logic to link it to	* is linked to 33.2.7.1 which is ir 33.2.7.1 is not clear although w 7 regarding the transition betwee	e can guess tha		•	Response		Response Status <b>O</b>		
	PSE that has assigned Class 1- ate may transition between 2-pai			C/ <b>33</b> Darshan,	SC 33.2	2.5.0a	P <b>87</b> Microsemi	L <b>43</b>	# 8
including after the ex	piration of Tpon.		-	Comment		<b>२</b> (	Comment Status X		
uggestedRemedy	new reader, and it requires gues	sing which part	of 33.2.7.1 we refer too.	"If the			irset rises above Vvalid r shall reset the PD by br		
PSE has successfull 33.2.7.1" To: "In any operational s PSE has successfull 33.2.7.1 regarding tr operated by Type 3 a Option 2 (preferred): 1. Change from: "In any operational s PSE has successfull 33.2.7.1" To: "In any operational s PSE has successfull 33.2.7.1.1"	tate, the PSE shall not apply op ly detected a valid signature ove state, the PSE shall not apply op ly detected a valid signature ove ansition between 2-pair and 4-p and Type 4 PSEs" state, the PSE shall not apply op ly detected a valid signature ove state, the PSE shall not apply op ly detected a valid signature ove 3.2.7.1 page 105 lines 16-17 to nsition from 2-pair to 4-pair	er that pairset, ex- perating power to er that pairset, ex- pair when single- perating power to er that pairset, ex- perating power to er that pairset, ex- new sub clause	xcept as specified in o a pairset until the xcept as specified in signature PDs o a pairset until the xcept as specified in o a pairset until the xcept as specified in	max, classi gray a The re (=10v so we <i>Suggeste</i> Chan, "If the conne max, classi To: "If the in Tat at the	defined in T ication." sked to work rea. eason for re will not be can genera <i>IRemedy</i> ge from: voltage on ction check defined in T ication." voltage on le 33–4) du	able 33–1 c with up the set above interpretent ate gray a either pain c, the PSE able 33–1 either pain ring conno off max, c	to Vvalid_max and to reset the Vvalid_max and to reset by PD as class event rea of 2V which allows d inset rises above Vvalid r is shall reset the PD by br 11 before performing inset rises above Vvalid r ection check, the PSE s defined in Table 33–11 br Response Status <b>O</b>	set at Voltage>Vv ht that any voltag but Vclass is star esign flexibility. max, (defined in T ringing the voltag max to Vvalid ma hall reset the PD	valid_max without any e above Vvalid_max rting at 14.5V at the PI Fable 33–4) during e at the PI below Voff x+2V, (Vvalid defined by bringing the voltage
"33.2.7.1.1 PSE trar A Type 3 or Type 4 F		d 1 noir nower a							
"33.2.7.1.1 PSE trar A Type 3 or Type 4 F	nay transition between 2-pair an	nd 4-pair power a	at any time, including						

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: Clause, Subclause, page, line

C/ 33 SC 33.2.5.0a Page 13 of 47 1/11/2016 10:45:29 AM

CI 33 SC 33.2	5.3 <i>P</i> 90	L <b>5</b>	# 70	CI 33	SC 33.2.5.5	P 91	L 15	# 71
Schindler, Fred	Seen Simply	y		Schindler,	Fred	Seen Sin	nply	
Comment Type ER	Comment Status X			Comment	Type ER	Comment Status X		
	of the characteristics specified in	n Table 33-5 shal	be accepted as a valid		-	cy text have made the sp	pecification more diffi	cult to understand.
PD detection signation	aure by a PSE.				33.2.5.5 indicate SE that is perforr	ning detection using Alte	ernative B (see 33.2.3	3) determines that the
should be rewritte	to improve clarity.			imped	ance at the			
SuggestedRemedy					circuit and	en as defined in Table 33	-6, it may optionally o	consider the link to be
Replace the text w	ith, on shall occur when a pairset h	as all of the char	acteristics specified in	omit tl	ne tdbo_timer inte	erval."		
Table 33-5."			acteristics specified in	A moo	lified legacy Sect	ion 33.2.4.1 p58, indicat	es.	
Proposed Response	Response Status O			"A PS		ection using only Alterna		ect a valid PD
						PSE shall back off for at	least Tdbo as specifi	ed in Table 33-11
				anothe	e attempting er detection. Durii PI. See	ng this backoff, the PSE	shall not apply a volt	age greater than VOff
						mation on Alternative B o	letection backoff requ	irements."
				Strick	en legacy text imr	mediate follows this,		
					forming detection using <i>i</i> nation on detection back			
						y omit the detection bac		
						o grouping text, as was p I text on page 58 line 15		
				Suggestee	Remedy			
					ask Force should ould be placed.	l discuss this and decide	where the collected	text (page 58 lines 5 to
					nmend, e section 33.2.5.5	i.		
				"If a P	SE performs perf	n page 58, lines 11 to 13 forming detection using <i>l</i> section, then that PSE	Alternative B detects	an open circuit (see
				Delete		e of the paragraph on pa	age 58 lines 6 to 9, so	o that this paragraph
				"A PS		ection using only Alterna	tive B may fail to det	ect a valid PD
				When		PSE shall back off for at	least Tdbo as specifi	ed in Table 33-11
					er detection. Duri	ng this backoff, the PSE	shall not apply a volt	age greater than VOff
	quired ER/editorial required GF D/dispatched A/accepted R/rei				d Z/withdrawn		/ 33 C 33.2.5.5	Page 14 of 47 1/11/2016 10:45:29 AM

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SC 33.2.5.5 1/11/2016 10:45:29 AM SORT ORDER: Clause, Subclause, page, line

Proposed Response	Response Status 0			Cl 33 SC 33.2.6 Yseboodt, Lennart	6 P 91 Philips	L <b>48</b>	# 164
Cl 33 SC 33.2.5.6 Schindler, Fred Comment Type ER Fix Typo "33.2.5.0aa" SuggestedRemedy Replace with "33.2.5.0	Seen Simply Comment Status X	L <b>26</b>	# <u>72</u>	Comment Type E original text: "Physic when the PSE asse class event with a c signatures."	Comment Status X cal Layer classification occurs b erts a voltage onto one or both p current representing one of a lim	pairsets and the P nited number of cl	D responds to each assification
Proposed Response	Response Status <b>O</b>			asserts a voltage in	ssification occurs before a PSE the range of Vclass as defined	l in Table 33-10 oi	nto one or both
C/ 33 SC 33.2.5.6 Johnson, Peter	P <b>91</b> Sifos Technol	L <b>26</b> ogies	# 160		led a class event. The PD response a limited number of classification Response Status <b>O</b>		s event with a curren
Comment Type E Typo:described in 3 SuggestedRemedy Remove extra 'a'	Comment Status X 33.2.5.0aa						
Proposed Response	Response Status 0						
C/ 33 SC 33.2.6 Yseboodt, Lennart	P <b>91</b> Philips	L <b>29</b>	# 210				
Comment Type <b>TR</b> Dual-signature behavi and the relevant PD so	Comment Status X our has been described in an ections.	inconsistent ma	nner in 33.2.6, 33.2.7				
SuggestedRemedy Adopt yseboodt_2_01	16 v4xx pdf						
Proposed Response	Response Status <b>O</b>						

CI 33 SC 33.2.6

C/ 33	SC	33.2.6	P 91	L 50	# 43	C/ 33	SC	33.2.6	P <b>92</b>	L 39	# 9
arshan	, Yair		Microsemi			Darshan,	Yair		Microsemi		
ommer	nt Type	TR	Comment Status X			Comment	t Type	TR	Comment Status X		
<ul> <li>This comment addresses the following topics:</li> <li>1.33.2.6 and 33.2.7.4 Contains editorial errors.</li> <li>2.Ipeak text was planned to be with the same concept as Icon text regarding all PD types and Ipeak, Ipeak-2P, Ipeak-2P_unb etc. however, dual-signature PD with the same class and different class was not addressed properly.</li> <li>3.To update 33.2.6 and 33.2.7.4 per the agreement made in offline discussions that Dual Signature PDs will be responsible to meet Pclass-2P over each pairset.</li> <li>4.Does DS signature PDs need to meet unbalance requirements i.e: <ul> <li>a) PSE PI Rpse_min/max?: YES. PD is affected by PSE unbalance and will change Pclass-PD-2P vendor design.</li> <li>b) Icon-2P_unb?: No. Pclass-2P is controlled by PD so we need just to meet Icont-2P=Pclass-2P/VPSE.</li> <li>c) PD PI unbalance requirements?: No. Pclass-2P is controlled by PD so whatever PD unbalance is, the PD need to handle it or by reducing Pclass-PD so Pclass-PD-2P will meet PD advertised class over that pairset or use current balancing techniques for</li> </ul> </li> </ul>					In orc follow 1. du: 1.1 d accor +PD+ 2. As will b 3. Th unbal 4. PS ensu the d guara	ler to cla ving guid al signat ual signat ding to 3 -Channe a result e treated e fact th ance iss E PI unit re contro ual signa antee Pc	arify and s le lines: sure PDs ature PDs 33.3.7.10 el) condition of (1) and d equally a at dual sig sues as the balance re balance re balance PD class-PD-2	simplify the spec we need to a shall be designed to have pcl will be tested to meet (1) wit in order to guarantee that (1) ons. d (1.1), the dual signature PD and we can use just the term gnature PD with the same cla he same as single signature F equirements need to be met to ronment to all PDs so the effet (and single signature PD) will 2P over each pairset.	ass-PD_2P max h unbalanced P is kept for all op with same class dual-signature P iss is also single PD is resolved by for all PDs incluc ect of PSE and c	on each pairset. SE and channel berating system (PSE s and different class PD. b load and therefore has y (1) and (1.1). ding DS PDs. This will channel unbalance on	
utiliz	ation of r	naximum	power available. g assumptions are:		, ,	See a	ment da also relat	arashan_( ted comm	01_0116.pdf. nents addressing the need to guidelines.	update 33.2.6, 3	33.2.7.4 and other
that: a) P	DS PDs with the same class is a single load PD as well as SS PD does. This means that: a) PSE PI Rpse_min/max requirements apply for all connected PDs (SS and DS)DS b) PD PI unbalance (requirements per 33.3.7.10) need to be updated for DS PDs to meet Icon-2P=Pclass-2P/Vpse over each pair set and not Icon-2P_unb. In addition DS PDs and SS PDs will be continue to be tested per the test circuit I n33.3.7.10. c) DS PDs with different class is treated as DS PDs with the same class which resulted with no differentiation in the spec for DS PD with same class or different class.		s (SS and DS)DS	Proposed			Response Status <b>O</b>				
lcon			C/ <b>33</b> Darshan,		33.2.6	P <b>93</b> Microsemi	L 10	# 23			
c) D			class which resulted	Commen		т	Comment Status X				
ıggeste	restedRemedy					Table 33-7 "Assigned Class" column title can be much clearer if it is explained.					
See	ee darshan_012_0116.pdf for proposed remedy.				Suggeste	dRemec	dy				

SORT ORDER: Clause, Subclause, page, line

Proposed Response

Response Status 0

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general

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

conditions of Table 33-7.

Proposed Response

C/ 33 SC 33.2.6

Change "Assigned Class" to "Assigned Class^3" to include the footnote number.
 Add footnote 3 at line 31 below Table 33-7:
 "Assigned Class is the actual PD class that is assigned to the PSE based on the operating

Response Status 0

Page 16 of 47 1/11/2016 10:45:29 AM

C/ 33 SC 33.2.6	P 93	L 10	# 16	C/ 33	SC 33.2.6	P 93	L 36	# 144
Darshan, Yair	Microsemi			Johnson, F			chnologies	
omment Type ER	Comment Status X			Comment	51	Comment Status X		
Column "Requested Cla	be improved by the following ss ALT A" is actually "PD Re B" is actually "PD Requested	equested Class	mode A" and ".	1) Unl incons 2) It m	ike Table 33-7 istent in that wa nakes no allowa	Dual Signature mutual II above, it does not cover a ay. Ince for a PSE that might sification when unable to	any power demotion power dual signatur	cases so it is e PD's independently to
1. Change "Requested (	Class ALT A" to "PD Reques	ted Class mode	e A"	Suggestea	Remedy			
2. Change "Requested C	Class ALT B" to "PD Reques	ted Class mode	e B".			e sweeping alternative to	this table to be prese	ented, there should be a
Proposed Response	Response Status O				•	esent the above issues.		
				Proposed	Response	Response Status O		
33 SC 33.2.6	P <b>93</b>	L 36	# 98					
chindler, Fred	Seen Simply			CI 33	SC 33.2.6	P <b>94</b>	L <b>1</b>	# 99
omment Type ER	Comment Status X			Schindler,	Fred	Seen Sir	nply	
Table 33-7a provides de	tails that make the informati	on provided mo	ore difficult to	Comment	Type ER	Comment Status X		
understand.						details that make the info vide solution also reduces		
This comment is related	to others referenced by CO	MMENT-3.		<b>T</b> 1, 1, 1, 1		a dita a dhana na Canana a dh		
uggestedRemedy						ed to others referenced b	y COMMENT-3.	
Replace the first table co	olumn label "PD Requested	Class Alt A" wit	h "ALT Classification".	Suggested	-			
third table column heade	column with header "PD Re er "Number of PSE Classification ts". Delete the forth column	ation Events on	Alt A" with "Number of	"PSEs	provide the AL	d text (after the note creat T Classification power va ass power level."		
Classification Events on				Proposed	0	Response Status 0		
	ole, "Table 33-7a provides d							
the same signature on e same number of classifie	ach PSE Alternative. PSEs	classify each A	Iternative using the	C/ 33	SC 33.2.6	P 94	L 1	# 211
roposed Response	Response Status <b>O</b>			Yseboodt,		Philips		
				Comment	Type <b>TR</b>	Comment Status X		
					33-7b lists the p - it does not p	ower classifications for d roperly show power demo class events in many cas	otion for all the suppo	
				Suggestea	Remedy			
				Replac	e Table 33-7b	by yseboodt_3_0116_Tat	ole_33_7b_v100.pdf	
				Proposed	Response	Response Status 0		
PE: TR/technical required	ER/editorial required GR/g	general required	d T/technical E/editorial G/g	general		C	33	Page 17 of 47

 TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general
 C/ 33
 Page 17 of 47

 COMMENT STATUS: D/dispatched A/accepted R/rejected
 RESPONSE STATUS: O/open W/written C/closed Z/withdrawn
 SC 33.2.6
 1/11/2016 10:45:29 AM

 SORT ORDER: Clause, Subclause, page, line
 SC 33.2.6
 1/11/2016 10:45:29 AM

CI 33	SC 33.2.6	P 95	L <b>4</b>	# 100
Schindler,	Fred	Seen Simply		

Comment Type ER Comment Status X

The Task Force needs determine how to eliminate duplicated shall statements. We should use this example to help determine how other duplicates will be handled in subsequent draft reviews.

For example, Table 33-8, replaced legacy Table 33-8, both versions of the table duplicate information already provided in other parts of the specification. Therefore, the shall-statement related to this table located on page 94 is also duplicated.

"A PSE shall meet one of the allowable classification configurations permutations listed in Table 33-8."

For example, on page 95 line 34 duplicates the may allowance for Type-1 PSEs, "A Type 1 PSE may optionally implement Data Link Layer classification."

#### SuggestedRemedy

A solution is to replace the duplicate requirement on page 95 line 34 with, "PSEs meet one of the allowable classification configurations permutations listed in Table 33-8." which makes the Table informative.

A second solution is to, Delete Table 33-8.

Delete the modified legacy requirement that also affects new Types on page 94, "A PSE shall meet one of the allowable classification configurations listed in Table 33-8."

Proposed Response Response Status **O** 

 C/ 33
 SC 33.2.6.2
 P 96
 L 35
 # 113

 Stover, David
 LTC

Comment Type T Comment Status X

"Type 2 PSEs shall provide a maximum of 2 class and 2 mark events. Type 3 PSEs shall provide a maximum of 4 class and 4 mark events. Type 4 PSEs shall provide a maximum of 5 class and 5 mark events."

Maximum allowable class/mark event for Type 3/4 PSEs is dependant upon signature of connected PD, which is not specified here.

#### SuggestedRemedy

"Type 2 PSEs shall provide a maximum of 2 class and 2 mark events. Type 3 PSEs shall provide a maximum of 4 class and 4 mark events for single-signature PDs and a maximum of 3 class and 3 mark events for dual-signature PDs. Type 4 PSEs shall provide a maximum of 5 class and 5 mark events for single-signature PDs and a maximum of 4 class and 4 mark events for dual-signature PDs."

Proposed Response Response Status **0** 

C/ 33 SC 33.2.6.2

CI 33 SC	C 33.2.6.2	P 96	L <b>39</b>	# 73	C/ 33	SC	33.2.6.2	P <b>97</b>	L <b>32</b>	# 76
Schindler, Fred		Seen Simply			Schindler	, Fred		Seen Simply		
Comment Type	ER	Comment Status X			Commen	t Type	ER	Comment Status X		
		ASS_EV1 shall provide to the shall be as defined by TCLE			"Edito	or's note		be removed: of previous paragraph due to b '	ad readability	/ (strikeouts/underlines
10. The tim	ing specifica	SS_EV1_LCF shall provide to tion shall be as defined by TL	CF in Table 33	-10. The PSE shall	Suggeste Remo			Editor's note.		
9 between 6 may continu	6 ms and 75 ue to monito	ssify the PD based on the ob ms after transitioning into the r the current past 75 ms. If the	state CLASS_ PSE did not r	EV1_LCF. The PSE neasure IClass in the	Proposed	l Respoi	nse	Response Status O		
after TACS	max this ind	TACS min and the PSE mea licates the PD will perform Au	toclass. (see 3	3.3.5.3)."	Cl 33 Schindler		33.2.6.2	P <b>97</b> Seen Simply	L <b>44</b>	# 64
provides inc requiremen		d incorrect information. It is n	ot clear which	PSE Type	Commen	t Type	TR	Comment Status X		
SuggestedRem		text with,				e 3 and <sup>·</sup>		Es, when connected to single- to MARK_EV_LAST if they in		
"A PSE in tl	he state CLA	ASS_EV1 shall provide to the	PI VClass as d	lefined in Table 33-10.	ls no	longer a	applicable	to Type 4 PSEs.		
The timina	specification	for Type 1 and 2 PSEs shall	be as defined b	ov Table 33-10 value	Suggeste	dReme	dy			
TCLE1, and PD based c	by TLCF for the observ	or Type 3 or 4 PSEs. The PSE ved current according to Table inue to monitor the current pa	shall measure 33-9 within Ta	PiClass and classify the able 33-10 Tpdc. Type	"Type	3 PSE		vith, onnected to single-signature PI IARK_EV_LAST if they implem		
not measur	e IClass in tl e range of C	ne range of Class 0 before TA lass 0 after TACS max this in	CS min and th	e PSE measures	Proposed	l Respoi	nse	Response Status <b>O</b>	·	
Proposed Resp	onse	Response Status 0			C/ 33	SC	33.2.6.2	P 98	L 13	# 114
					Stover, D	avid		LTC		
CI 33 SC	C 33.2.6.2	P <b>96</b>	L <b>42</b>	# 74	Commen	t Type	Е	Comment Status X		
Schindler, Fred		Seen Simply					tion directl	y to Mark_EV_LAST if the clas	s" MARK_F	EV_LAST is not proper
Comment Type	ER	Comment Status X			case.		alı i			
Several bro	ken hyperlin	ks are used for Table 33-10 c	n lines 42 and	43.	Suggeste		•	ST" with "MARK_EV_LAST".		
SuggestedRem Use valid h					Proposed			Response Status <b>O</b>		
Proposed Resp	onse	Response Status <b>O</b>								

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general	C/ 33	Page 19 o
COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn	SC 33.2.6.2	1/11/2016
SORT ORDER: Clause, Subclause, page, line		

Page 19 of 47 //11/2016 10:45:29 AM

CI 33 SC 33.2	.6.2	P <b>98</b>	L 17	# 145	C/ 33 SC	33.2.6.3	P 100	L 20	# 166
lohnson, Peter		Sifos Techno	ologies		Yseboodt, Lenna	art	Philips		
Comment Type T	Comment	Status X			Comment Type	Е	Comment Status X		
"A Type 3 or Type	4 PSE connected	to a dual-sign	ature PD shall ski	ip all subsequent class	Table 33-10a	a does not d	lescribe any electrical parar	neters but only ti	ming parameters.
events and transit CLASS_EV3 is 0.		RK_EV_LAST i	if the class signati	ure detected during	SuggestedReme	edy			
					Change hea	der to: Auto	class timing requirements		
	nachine 'caught up _EV3 is 3 because		nature (dual) Class	s 3 PD (i.e. signature is	Proposed Respo	onse	Response Status O		
SuggestedRemedy					C/ 33 SC	33.2.6.3	P 100	L <b>47</b>	# 29
	state machine and note should be add			e machine during this	Darshan, Yair	00.2.0.0	Microsemi	- 11	
•					Comment Type	Е	Comment Status X		
PSE from getting	4 events? Or doe	es it 4 events by		What prohibits this	"PAutoclass	is the meas	as not implemented complexities of the second complexities and the second complexities of the second c		tween TAUTO_PSE2
Proposed Response	Response	Status O			and TAUTO	_PSE2"			
					Typo in first	occurrence	of TAUTO_PSE2		
C/ 33 SC 33.2	.6.2	P <b>98</b>	L 18	# 115	SuggestedReme	edy			
Stover, David	<b>O</b> amman!	LTC				is the meas	sured power during the Auto	class window be	tween TAUTO_PSE
Comment Type T	<i>Comment</i> or an overview of I		nhysical layer cla	esification "	and TAUTO	_PSE2"			
	ssification was ren				To:				
SuggestedRemedy							sured power during the Auto	class window be	tween TAUTO_PSE
"See Table 33–7	or an overview of	Multiple-Event	physical layer cla	ssification."	and TAUTO	_P5E2			
Proposed Response	Response	Status <b>O</b>			Proposed Respo	onse	Response Status 0		
C/ 33 SC 33.2	.6.2	P 98	L <b>20</b>	# 165					
Yseboodt, Lennart		Philips							
Comment Type E	Comment	Status X							
	33-9 is "PD classifi that Iclass indicat								
	lassification schen								
SuggestedRemedy	signature electrica	l requirements	;						

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: Clause, Subclause, page, line

CI 33 SC 33.2.6.3 Page 20 of 47 1/11/2016 10:45:29 AM

C/ 33 SC 33.2.7 Schindler, Fred	P 101 Seen Simply	L <b>7</b>	# 52	C/ <b>33</b> Darshan, Yai	SC 33.2.7	P 101 Microsemi	L <b>45</b>	# 24
,	omment Status X			Comment Ty		Comment Status X		
Changed text, "When the PSE provides po	wer to the PI, it shall con			See dars	han_07_01	16.pdf for more details.		
limit values support operation	n under worst-case opera	ating conditior	IS."			on-2p_unb_MIN=Icon for Type uestion is that it could be per th		
May be improved.				min for c	lass 4 will b	e greater than Class 5 which m	ay raise confusion	on and the following
SuggestedRemedy				analysis Analysis		plain why it happens for the rec	ord and sugges	t text for clarity.
Replace the text with, "When the PSE provides pow values support worst-case of		form with Tabl	e 33-11. Table 33-11	a) When following	Type 3 or 4 behaviors:	connected to class 0-4 PDs we irs than lcon-2P_unb_min=lcon	-	·
Proposed Response Res	sponse Status <b>O</b>			on the pa	ng over 4-pa air with maxi	irs, the worst case unbalance w mum current however per the c	urrent spec 0.6/	A will be the value for
CI 33 SC 33.2.7	P 101	L 11	# 4			with situation that class 4 lcon- at there are no unbalance requ		
Darshan, Yair	Microsemi			pairs, we	have no ch	oice but to use for 2P and 4P o	peration with cla	ass 0-4 PD the same
Comment Type TR Co	omment Status X			"Icon-2P	_unb" min v	alue which is Icon and we need	to clarify this in	the spec.
In order to control the P2P u measuring the current will be	e defined in the negative				e discussion comment.	n is apply to ILIM-2P in table 33	-11 item 9 which	h is discussed in
and for single port and multip	oort PSE systems.			SuggestedRe	emedy			
SuggestedRemedy 1. Clause 33.2.7 page 101 lin Multiport and Single port Typ currents at least over the mo	be 3 and 4 PSEs, shall s	witch their pow	ver and measure their	1.Chang 2.Add no "3 For cla	e Icon to Ico te 3 at the e ass 4, Icon-2	16.pdf for more details (the full on3 in Table 33-11 item 4a Icon- end of table 33-11 with the follow 2P_unb minimum value may be ct that class 4 pair-to-pair is not	2P_unb minimu ving text: higher than the	ım value.
2. Clause 33.3.7 page 135 lin Type 3 and 4 PDs, shall swit more negative power pairs.			ents at least over the	Proposed Re	esponse	Response Status <b>O</b>		
Proposed Response Res	sponse Status <b>O</b>							

C/ 33 SC 33.2.7

C/ 33 SC 33.2.7	P <b>102</b> Sifos Technolo	L <b>7</b>	# 146		33.2.7	P <b>103</b> Microsemi	L <b>7</b>	# 26
	Comment Status X 5a, and 5c are all labeled "Ou guish from 5b and 5d, and also both pairsets."	tput current in		better table cla need to be eva a) There is mis	em <sup>-9</sup> , ILII planned arity howe aluated. ssing PD n. In D1.	Comment Status X .pdf. M-2P. to be modified from D1.4 to D ever some technical changes class information for PSE Typ 4 it was there. In D1.5 it is mis	were made cor	npare to D1.4 and s 1 and 2 in the item
Cl 33 SC 33.2.7 Darshan, Yair Comment Type E The following: a) Table 33-11 item 5- b) Table 33-18 items 5 Can be simplfied. SuggestedRemedy	5-5d and 33.3.7.3	<i>L</i> 10	# 33	0.562A which current. If we will see that IL the 0.410A val We decided th class 4 is conr may be 100% minimum valu operating over	perceived will run si IM-2P fo lue and n hat that th nected to i.e. all th e will be 2P whic	ss 0-4 with Type 3,4 PSE is 0. d as incorrect in initial review t mulations to find ILIM-2P for or r class 4 will be 0.410A and no eed to use the 0.684A value is ere are no unbalance requirer Type 3 PSE and operates wit the same as required for Type h is 0.684A. That is why it cou s 5 (0.562A). Class 5 unbalan	to have class 4 class 4 when op ot 0.68A. The r s as follows: ments for class th 4-pairs, the u the pairs. In the 3 PSE connect ild be that ILIM	4 current > class 5 berated over 4pairs we eason why we can't use 4 and below. So if PD unbalance theoretically his case ILIM-2P cted to class 4 PD -2P minimum of class 4
See proposal in darsh Proposed Response	an_02_0116.pdf. Response Status <b>0</b>			·	, 33-11 ite	m 9 per darshan_10_0116.pd	f	
Cl 33 SC 33.2.7	P 102	L <b>47</b>	# 37	Proposed Respon	se	Response Status <b>O</b>		
	Microsemi Comment Status X on-2P, Type 3,4 additional info o 33.2.7.4 that explains what is		n:	Stover, David Comment Type	<b>53.2.7</b> <b>E</b> 33-14 is	P 103 LTC Comment Status X broken in Table 33-11.	L 10	# 116
Add to the additional in "See 33.2.7.4 for Icon-				SuggestedRemed Repair link to l	V			
Proposed Response	Response Status O			Proposed Respon	0	Response Status O		

Cl	33
SC	33.2.7

CI 33 SC 33.2.7	P 103	L 10	# 97	C/ 33	SC 33.2.7		P 104	L <b>47</b>	# 17
Schindler, Fred	Seen Simply			Darshan, Yair			Microsemi		
Comment Type ER Col	nment Status X			Comment Typ	e ER	Comment S	Status X		
Fix the broken hyperlink on Fi	gure 33-14.				nent is marke	ed as ED_2			
SuggestedRemedy				Editor Not "2. The fol		needs to be ad	dressed: If PS	F is using active	e or passive pair-to-pa
Fix the broken hyperlink on Fi	gure 33-14.			current ba	lancing circui	itry, K_lcut may	y be lower (do	wn to 0.5) per eo	
Proposed Response Res	ponse Status <b>O</b>			Instead it	should be rep		v parameter or	no longer exists. new descriptior	that is related to Icon
C/ 33 SC 33.2.7	P 103	L 11	# 96	SuggestedRei	nedy				
Schindler, Fred	Seen Simply				ditor Note #2				
Comment Type ER Col	nment Status X			current ba	lowing case i lancing circui	itry, K Icut may	/ be lower (do	wn to 0.5) per ec	e or passive pair-to-pa quation TBD."
Table 33-11, item-9 is for out lines and then class ranges. also want the Task Force to c	This listing is not clear a	and contains inc	omplete information. I						e or passive pair-to-pa
			le cultent values.	TBD."		lay, 10011 21 _u		іспи-2 г піш пау	be lower per equation
SuggestedRemedy In the Parameter column for i Replace the second parameter Class-5 PSEs provide 45W o shown in the table is 1.25x m use 1.19 for unbalance. Is th corrections to Item-9 values.	er blank line with Class ver 4-pairs. This is, 45/ pre, which includes 1.05	arameter blank 4. 50/2 = 450 mA p ix for the ILIM ac	line with Class 0-3. per pairset. The value djustment and must		0	Response Si		ц. IIII - 2 г IIII I III ау	
In the Parameter column for i Replace the second parameter Class-5 PSEs provide 45W o shown in the table is 1.25x m use 1.19 for unbalance. Is th corrections to Item-9 values.	er blank line with Class ver 4-pairs. This is, 45/ pre, which includes 1.05	arameter blank 4. 50/2 = 450 mA p ix for the ILIM ac	line with Class 0-3. per pairset. The value djustment and must	TBD."	0			ц. IIII - III - IIII - III - IIII - IIIII - IIII - IIIII - IIII - IIIIII	
Replace the second parameter Class-5 PSEs provide 45W o shown in the table is 1.25x m use 1.19 for unbalance. Is th corrections to Item-9 values.	er blank line with Class ver 4-pairs. This is, 45/9 ore, which includes 1.05 s value of unbalance co	arameter blank 4. 50/2 = 450 mA p ix for the ILIM ac	line with Class 0-3. per pairset. The value djustment and must	TBD."	0			ILIW-2F IIIII IIay	
In the Parameter column for i Replace the second parameter Class-5 PSEs provide 45W o shown in the table is 1.25x muse 1.19 for unbalance. Is th corrections to Item-9 values. Proposed Response Response	er blank line with Class 4 ver 4-pairs. This is, 45/9 ore, which includes 1.05 s value of unbalance co poonse Status <b>O</b>	arameter blank 4. 50/2 = 450 mA p 5x for the ILIM ac prrect? If not we <i>L</i> <b>51</b>	line with Class 0-3. per pairset. The value djustment and must e need to make	TBD."	0			ц. IIVI-2 г IIIII I IIIdy	
In the Parameter column for i Replace the second parameter Class-5 PSEs provide 45W o shown in the table is 1.25x m use 1.19 for unbalance. Is th corrections to Item-9 values. Proposed Response Response Cl 33 SC 33.2.7 Johnson, Peter	er blank line with Class ver 4-pairs. This is, 45/s ore, which includes 1.05 s value of unbalance co boonse Status <b>O</b> <u>P 103</u> Sifos Technolo mment Status <b>X</b> em 17 says:	arameter blank 4. 50/2 = 450 mA p 5x for the ILIM ac prrect? If not we <i>L</i> <b>51</b>	line with Class 0-3. per pairset. The value djustment and must e need to make	TBD."	0			ц. IIVI-2 г IIIII I IIay	
In the Parameter column for i Replace the second parameter Class-5 PSEs provide 45W o shown in the table is 1.25x m use 1.19 for unbalance. Is th corrections to Item-9 values. Proposed Response Response Cl 33 SC 33.2.7 Johnson, Peter Comment Type E Con Sub-heading in Table 33-1, ite	er blank line with Class ver 4-pairs. This is, 45/s ore, which includes 1.05 s value of unbalance co boonse Status <b>O</b> <u>P 103</u> Sifos Technolo mment Status <b>X</b> em 17 says:	arameter blank 4. 50/2 = 450 mA p 5x for the ILIM ac prrect? If not we <i>L</i> <b>51</b>	line with Class 0-3. per pairset. The value djustment and must e need to make	TBD."	0			LLIW-2F IIIII IIIay	
In the Parameter column for i Replace the second parameter Class-5 PSEs provide 45W o shown in the table is 1.25x mu use 1.19 for unbalance. Is th corrections to Item-9 values. Proposed Response Response Response Cl 33 SC 33.2.7 Johnson, Peter Comment Type E Col Sub-heading in Table 33-1, itt "DC MPS current to be met o	er blank line with Class ver 4-pairs. This is, 45/s ore, which includes 1.05 s value of unbalance co boonse Status <b>O</b> <u>P 103</u> Sifos Technolo mment Status <b>X</b> em 17 says:	arameter blank 4. 50/2 = 450 mA p 5x for the ILIM ac prrect? If not we <i>L</i> <b>51</b>	line with Class 0-3. per pairset. The value djustment and must e need to make	TBD."	0			LLIW-2F IIIII IIIay	
In the Parameter column for i Replace the second parameter Class-5 PSEs provide 45W o shown in the table is 1.25x muse 1.19 for unbalance. Is th corrections to Item-9 values. Proposed Response	er blank line with Class ver 4-pairs. This is, 45/s ore, which includes 1.05 s value of unbalance co boonse Status <b>O</b> <u>P 103</u> Sifos Technolo mment Status <b>X</b> em 17 says:	arameter blank 4. 50/2 = 450 mA p 5x for the ILIM ac prrect? If not we <i>L</i> <b>51</b>	line with Class 0-3. per pairset. The value djustment and must e need to make	TBD."	0			IL IW-2F IIII III Ay	
In the Parameter column for i Replace the second parameter Class-5 PSEs provide 45W o shown in the table is 1.25x muse 1.19 for unbalance. Is th corrections to Item-9 values. Proposed Response	er blank line with Class ver 4-pairs. This is, 45/s ore, which includes 1.05 s value of unbalance co boonse Status <b>O</b> P 103 Sifos Technolo mment Status <b>X</b> em 17 says: n both pairsets".	arameter blank 4. 50/2 = 450 mA p 5x for the ILIM ac prrect? If not we <i>L</i> <b>51</b>	line with Class 0-3. per pairset. The value djustment and must e need to make	TBD."	0			LLIW-2F IIIII IIIay	

C/ 33 SC 33.2.7

C/ 33	SC 33.2.7	P 104	L <b>47</b>	# 42
Darshan	, Yair	Microsemi		

,			
Comment	Type	т	

Microsemi

nment Type	т	Comment Status	Х	

#### Editor Note #2.

"2. The following case needs to be addressed: If PSE is using active or passive pair-to-pair current balancing circuitry. K Icut may be lower (down to 0.5) per equation TBD."

The accuracy of this comment is addressed in the comment marked ED 2 due to the fact that after D1.4 changes when K\_lcut was removed and other terms were used.

The following comment addresses the main issue of Editor Note #2.

1.According the current spec we can implement active or passive current balancing. This is not the issue.

2. According to the current spec if we build active or passive current balancer and we use the limits of Icon-2P\_unb, Ipeak-2P\_unb and ILIM-2P we will surely be fine. This is not the issue too.

3. The issue is that if we leave that spec as it is, we can't benefit from using active or passive current balancer due to the fact that we are not allowed to use lower limits of Icon-2P unb, Ipeak-2P unb and ILIM-2P (that was planned for the worst case unbalance) due to the improved unbalance now. As a result we can't optimize the PSE designs for lower cost as it the only reason for using current balancer.

4. The fact that we can use ILIM, Icon etc. which doesn't include unbalance effect doesn't help to PSEs that wants to have independent Iport-2P measurements and protection over each pairset (this concept of XXX-2P is all over the spec now).

Example: In Type 4 class 8 ILIM-2P min is 0.99A which includes unbalance effect. Normally PSEs set their ILIM-2P protection to >0.99A per each pairset e.g. 1.08A. It means that the 2nd pair with the lowest current will have much lower current during normal operation: Iport-2P\_other= (90W/52V/2 - (0.925A-90W/52V/2 )=0.865A-0.0596A=0.805A :

So if there is a fault at the pair with the pair with the lowest current, the protection on this pairset will happen only when the pair with the lowest current will get to > 1.08A which is a current difference of 1.08A-0.805A=0.275A. This means that the PSE have to be designed to such conditions, it is not a problem to design it as such however we can relax requirements to PSE if PSE is using active or passive current balancer.

#### SuggestedRemedy

See presentation and proposed Remedy in darshan 06 0116.pdf

Proposed Response Response Status 0

C/ 33	SC 33.2.7.1	P 105	L 15	# 148
Johnson, Pete	r	Sifos Technolo	ogies	
Comment Typ	еТ	Comment Status X		

#### The final phrase:

"A Type 3 or Type 4 PSE that has assigned Class 1-4 to a single-signature PD and is in the POWER\_ON state may transition between 2-pair and 4-pair power at any time, including after the expiration of Tpon."

This has no coverage in the state diagram for Type 3/4, at least that I can determine. Also, does this suggest that the PSE can revert from 4-pair powering to 2-pair powering?

#### SugaestedRemedv

Assuming this phrase exists to address 2-pair inrush limiting by some PSE's, we need to get coverage in state diagram. (editorial note ?)

Secondly, it might be better phrased.

"A Type 3 or Type 4 PSE that has assigned Class 1-4 to a single-signature PD and powered just one pairset of that PD, may apply power to the other pairset of that PD while in the POWER\_ON state."

Proposed Response Response Status **O** 

	P 105	1.40	# [10]	01.00			D 400	1.00	# 00
C/ <b>33</b> SC <b>33.2.7.1</b> Darshan, Yair	P 105 Microsemi	L 16	# 46	<i>Cl</i> <b>33</b> Darshan,		33.2.7.4	P 106 Microsemi	L <b>28</b>	# 38
,				,					
	Comment Status X 2SE that has assigned Class 1- e may transition between 2-pai				iss-2P is is-2P is	not defined	Comment Status X P as defined in Table 33–11" I in Table 33-11. It is defined in	n Equation 33-3a	a
is correct also when the any power up to class	ne PD assigned class is 5-8 an	nd the PD power	level at that time is at		ge from iss-2P is		P as defined in Table 33–11"		
SuggestedRemedy					ss-2P is	s PClass-2	P as defined in Equation 33-3a	a"	
the POWER_ON state	SE that has assigned Class 1- e may transition between 2-pai			Proposed	l Respoi	nse	Response Status <b>O</b>		
including after the exp To:	biration of Tpon.			C/ 33	SC	33.2.7.4	P <b>106</b>	L <b>41</b>	# 31
"A Type 3 or Type 4 P	SE that has assigned Class 1			Darshan,	Yair		Microsemi		
including after the exp	e may transition between 2-pai piration of Toon.	r and 4-pair pov	ver at any time,	Comment	t Type	Е	Comment Status X		
"A Type 3 or Type 4 F	SE that has assigned Class 5 e may transition between 2-pai			Typo "VPS		voltage at	the PSE PI as defined in 1.4.4	123"	
including after the exp	piration of Tpon only if during th	ne time the PSE		Suggeste		-		120	
between 2-pair and 4- Proposed Response	pair power the actual power is Response Status <b>O</b>	below class 4"		Chan	ge from	:	he PSE PI as defined in 1.4.4	23	
				To:		0			
C/ 33 SC 33.2.7.4	P 106	L <b>4</b>	# 34			-	he PSE PI as defined in 1.4.42	26	
Darshan, Yair	Microsemi		" 04	Proposed	Respoi	nse	Response Status O		
Comment Type E "ICon-2P is the curren Equation (33–3d)."	Comment Status X at the PSE supports on each pa	airset and is def	ined by Equation						
The word "Equation" a	apears twice.								
SuggestedRemedy									
Equation (33–3d)."	t the PSE supports on each pa	airset and is def	ined by Equation						
To: "ICon-2P is the currer (33–3d)."	nt the PSE supports on each pa	airset and is def	ined by Equation						
Proposed Response	Response Status O								

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

CI 33 SC 33.2.7.4

C/ 33         SC 33.2.7.4         P 107         L 26         # 11           Darshan, Yair         Microsemi	CI 33         SC 33.2.7.4         P 107         L 27         # 28           Darshan, Yair         Microsemi
Comment Type       TR       Comment Status       X         The text:       "Type 3 and Type 4 PSEs operating in 4-pair mode, connected to a single-signature PD, shall be able to source"         Applies to dual signature PDs with the same class too.	Comment Type <b>TR</b> Comment Status <b>X</b> "Type 3 and Type 4 PSEs operating in 4-pair mode, connected to a single-signature PD, shall be able to source IPeak, IPeak-2P, and IPeak-2P_unb as specified in Table 33–11 and Equation (33–4d)." IPeak, IPeak-2P, and IPeak-2P_unb are not defined in Table 33-11. They are defined in
This is the same concept used for Icon, Icon-2P and Icon-2P_unb in pages 105-106. SuggestedRemedy	pages 106 and 107. SuggestedRemedy
Change from: "Type 3 and Type 4 PSEs operating in 4-pair mode, connected to a single-signature PD, shall be able to source" To: "Type 3 and Type 4 PSEs operating in 4-pair mode, connected to a single-signature PD or dual-signature PD that advertise the same class signature on each pairset, shall be able to	Change: "Type 3 and Type 4 PSEs operating in 4-pair mode, connected to a single-signature PD, shall be able to source IPeak, IPeak-2P, and IPeak-2P_unb as specified in Table 33–11 and Equation (33–4d)." To:
source"	"Type 3 and Type 4 PSEs operating in 4-pair mode, connected to a single-signature PD, shall be able to source IPeak , IPeak-2P , and IPeak-2P_unb as specified in Equation (33–4d)."
source"	shall be able to source IPeak , IPeak-2P , and IPeak-2P_unb as specified in Equation
source" Proposed Response Response Status O Cl 33 SC 33.2.7.4 P 107 L 27 # 39	shall be able to source IPeak , IPeak-2P , and IPeak-2P_unb as specified in Equation (33–4d)."

CI 33 SC 33.2.7.4

C/ <b>33</b> SC <b>33.2.7.4</b> Darshan, Yair	P <b>107</b> Microsemi	L <b>42</b>	# 12	C/ <b>33</b> Darshan, Ya	SC <b>33.2.7.4</b> air	P <b>108</b> Microsemi	<i>L</i> 1	# 25		
					Darshan, Yair       Microsemi         Comment Type       TR       Comment Status       X         Ppeak_PD-2P is not defined in table 33-18.       Actually Ppeak_PD-2P in equation 33-4e is not defined.       It was defined in previous drafts as 0.5*Ppeak_PD while Ppeak_PD is defined in Table 33-18.         SuggestedRemedy       Change from:       "PPeak_PD-2P is the total peak power a PD may draw for its Class on a pairset; see Table 33–18"         To:       PPeak_PD-2P is the total peak power a PD may draw for its Class on a pairset and is defined as 0.5*Ppeak_PD. Ppeak_PD is defined in Table 33–18.         Proposed Response       Response Status       O					
each pairset" Proposed Response	Response Status <b>O</b>			<i>CI</i> 33 Picard, Jear	SC <b>33.2.7.5</b>	P <b>109</b> Texas Instrun	L 12 nents	# 86		
Cl 33 SC 33.2.7.4 Schindler, Fred Comment Type ER Fix the broken hyperlind SuggestedRemedy Fix the broken hyperlind Proposed Response		L 54	# <u>59</u>	single-s max, st the first Need to the exc SuggestedF Insert th	and Type 4 P: signature PD sh arting with pairset transiti o clearly state t eption of Type Remedy ne following set	Comment Status X SEs that apply power to both all reach the POWER_ON st oning into the POWER_UP st nat both pairset do not necess 4 having allocated Class 7-8   ntence after the paragraph: ay transition to POWER_UP	ate on both pair tate." sarily have to tu power.	sets within TInrush-2P		
				Proposed R	•	Response Status <b>O</b>				

Cl 33 SC 33.2.7.5 Page 27 of 47 1/11/2016 10:45:29 AM

C/ 33 SC 33.2.7.5	P 110	L 5	# 36	C/ 33	SC 33.2.7.6	P 112	L 41	# 103
Darshan, Yair	Microsemi	23	# 30	Schindler,		Seen Simply	- 41	# 103
Comment Type ER Figure 33-13: a) Y axis lable Iport-2P b) linrush-2P_max is to	Comment Status X is too close to the Y axis end to close to the Y axis. at Vpse-2P>30V" need to inc sted editing.		ish as well.	Comment I am no duplica improv Figures Figures	Type <b>TR</b> bt able to parse ation that exists e this section be s 33-14b and 33 33-14b prevent of both pairsets	Comment Status X this section in a reasonable ar for no apparent reason. Comm ut continued review shows eve 3-14c have the same titles, whi is operational modes that are in s. Figures also permit more po	nents already p n more issues. ch is an error. mportant to arcl	rovided attempt to For example, nitectures providing
Proposed Response	Response Status <b>O</b>				,	33-14c title by replacing "Type	3" with "Type	4". This is supported
Cl 33 SC 33.2.7.6 Schindler, Fred Comment Type ER Figures 33-14, 14a, 14	P 111 Seen Simply <i>Comment Status</i> X b, and 14c, are missing one o	L <b>30</b> r more axis lat	# 77	"Task I may pr	event operation	are encouraged to review this al modes PSEs with pairset co ended for compliant PD device	ontrol require. I	
SuggestedRemedy	of Figure 33-14, and time for th			Proposed I		Response Status <b>O</b>		
Proposed Response	Response Status <b>O</b>			Cl <b>33</b> Yseboodt, Comment single Suggested	<i>Туре</i> Е signature <= mi	P 111 Philips <i>Comment Status</i> X ssing hyphen	L 27	# [167
				Chang Proposed I	e to single-signa Response	ature Response Status <b>O</b>		

Cl 33 SC 33.2.7.7

33 SC 33.2.7.7	P 111	L 27	# 3	CI 33	SC 33.2.7.7	P 111	L <b>31</b>	# 118	
arshan, Yair	Microsemi			Stover, David	l	LTC			
omment Type TR	Comment Status X			Comment Ty	be E	Comment Status X			
	single signature PD, a Type 3 ts before the current exceeds			benefit fr	om living on t	lated values, pertaining only t ne same axis.	o upperbound te	emplate, and so could	
either pairset."				SuggestedRe	•				
	normally have addressed the			Move "10	)µs" to same a	axis as "8.2ms" in all Figure 3	3-14 variants.		
"Power shall be remove the "PSE upperbound t	d we already cover the pairse ed from a pairset PI of a PSE emplate" in Figure 33-14, Figure	before the pairs ure 33-14a, and	et PI current exceeds Figure 33-14b."	Proposed Re	sponse	Response Status O			
	PD if current over a pairset ap s removed from that pairset, the			C/ 33	SC 33.2.7.7	P 113	L 23	# 119	
remaining pairset and i	will be disconnected as well,			Stover, David	l	LTC			
text in line 27.				Comment Ty	pe E	Comment Status X			
ggestedRemedy				Figures 33-14b and 33-14c have identical caption text. As per 33.2.7.7 paragraph 1, 33-					
Delete:	single signature PD, a Type 3	or Type 4 PSE	should (TBD) remove	14c shou	Id reference 7	ype 4 PSEs.			
	ts before the current exceeds			SuggestedRe	emedy				
				In Figure	33-14c caption	on, replace "Type 3" with "Typ	e 4"		
roposed Response	Response Status <b>O</b>			Proposed Re	sponse	Response Status O			
33 SC 33.2.7.7	P 111	<i>L</i> 31	# 117	CI 33	SC 33.2.7.7	P 114	L <b>7</b>	# 120	
over, David	LTC			Stover, David	l	LTC			
omment Type E	Comment Status X			Comment Ty	be E	Comment Status X			
	33-14 (I_port-2p and "8.2ms")	has been cropp	ed from new Figure 33-	I_TBDN/	ME was not u	updated to I_LPS. This is the	only occurrence	of I_TBDNAME.	
14.				SuggestedRe	emedv				
uggestedRemedy				00	I_TBDNAME	with I_LPS.			
,				•					
Repair Figure 33-14 to	include top portion.			Proposed Re	sponse	Response Status <b>O</b>			

Cl 33 SC 33.2.7.7 Page 29 of 47 1/11/2016 10:45:30 AM

Cl 33	SC 33.2.7.12		L <b>31</b>	# 121	Cl 33	SC <b>33.3.1</b>	P 120	L <b>40</b>	# 78
Stover, Da <i>Comment</i>		LTC Comment Status X			Schindler, Comment		Seen Simp Comment Status	лу	
	-2P-other definition	on points to T1/T2 SD varia	bles section. Sho	uld point to T3/T4 SD	The ex "PDs t	kisting sentence hat are not imp		o polarity, are spec	ifically not allowed by
Suggestee	dRemedy				this st	andard."			
Repla 33.2.4		I_Port-2P-other with "is the	output current or	the other pairset (see	Shoul	d be reworded t	o indicate what is required.		
	Response	Response Status 0				ce the sentence	with, live to polarity of the applied	d voltage."	
C/ 33 Yseboodt,	SC <b>33.2.8</b> Lennart	P <b>117</b> Philips	L <b>4</b>	# 200	Proposed	Response	Response Status O		
Comment	Type ER	Comment Status X			C/ 33	SC 33.3.1	P 120	L <b>40</b>	# 65
		all not initiate power provis			Schindler,	Fred	Seen Simp	bly	
	tain the available ced by the PSE."	amount of power based on	the number of cla	assification events	Comment	Type <b>TR</b>	Comment Status X		
	een written in Klir	y fully understands the intri-	cacies of power d	emotion,this might have	"PDs t this st	kisting sentence hat are not imp andard." es an incomple	lemented to be insensitive t	to polarity, are spec	ifically not allowed by
"A PS	* & shorter: E shall not provid sted Class of that	e power to a Class 0 to 3 F PD."	D, unless the PS	E can supply the	Suggested	IRemedy	uirement after the referenc	ed sentence that cla	arifies what insensitive
Proposed	Response	Response Status 0			means "PDs s	,	ame capabilities when powe	ered using either po	plarity."
					Proposed		Response Status <b>0</b>	0 1	
C/ <b>33</b> Stewart, ⊦	SC <b>33.2.9.1.2</b> leath	2 <i>P</i> 119 LTC	L <b>22</b>	# 125					
Comment		Comment Status X			C/ <b>33</b>	SC 33.3.1	P 120	L <b>40</b>	# 174
	PS requirements				Yseboodt,		Philips		
Suggestee See s	dRemedy tewart_1_0116.pd	lf					Comment Status X t are not implemented to be ard."	e insensitive to pola	rity, are specifically not
Proposed	Response	Response Status 0			Remo	ve triple negation	on for clarity		
					Suggested	IRemedy			
					"PDs t	hat are sensitiv	e to polarity, are specifically	y not allowed by this	s standard."
					Proposed	Response	Response Status 0		
	to obvical require			Theophysical Fladitarial O	(2020-201)			22	Dogo 20 of 47
		a ER/editorial required Gr		d T/technical E/editorial G			CI	33 22 2 4	Page 30 of 47

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SC 33.3.1 1/11/2016 10:45:30 AM SORT ORDER: Clause, Subclause, page, line

C/ 33 SC 33.3.1	P 120	L 40	# 66	C/ 33	SC :	33.3.2	P 121	L 46	# 122
Schindler, Fred	Seen Simply			Stover, Da			LTC		
Comment Type TR	Comment Status X			Comment	Туре	TR	Comment Status X		
Existing text, "The PD shall withstand permanent damage."	any voltage from 0 V to 57 V	/ at the PI indef	initely without	class	signatur	e of 7 or	ertise a class signature of 4 8." 5, 6, 7, and 8 are Class be found on page 122, line	results, not class	
is not correct and should	d be removed. For example,	nade 99 provid	les an Editor's note	Suggeste	dRemed	ly			
	perform thermal analysis on n			"Such	туре 3	PDs adv	ertise Class 4, 5, or 6, while	Type 4 PDs adv	ertise Class 7 or 8."
voltage indefinitely. It is Ethernet transformers sl	which shows concern that PE also clear that providing 57V hould not be allowed. The or	/ across MDI pi iginal meaning	ns connected to of this sentence is no	Proposed	Respon	se	Response Status O		
-	sk Force has not been able to	find acceptabl	e text.	C/ 33	SC :	33.3.2	P 121	L 51	# 123
SuggestedRemedy				Stover, Da	avid		LTC		
Delete the sentence.				Comment	Type	TR	Comment Status X		
Proposed Response	Response Status 0		# [10]	while	Type 4 c	dual-signa	PDs advertise a class signa ature PDs advertise a class ss signature rather than Cla	signature of 5 on	at least one pairset."
C/ 33 SC 33.3.2 Bennett, Ken	P <b>121</b> Sifos Technolo	L <b>32</b>	# 49	Suggeste	dRemed	ly			
Comment Type ER	Comment Status X	gies, in					PDs advertise Class 1, 2, 3 e Class 5 on at least one pa		irset, while Type 4 dual
	s Note: Classification section event (Mark is considered a		to move all Type 3 and	Proposed	Respon	se	Response Status <b>O</b>		
	eaders that when the word "E number of class pulses. In 8			C/ 33	SC :	33.3.3.5	P <b>126</b>	L 1	# 191
	tion (Class-Mark) as $> 1$ . Th			Yseboodt,	, Lennart	t	Philips		
802 2bt toxt undated bo	ve been, and will continue to	ha complicator	d by this	Comment	Type	ER	Comment Status X		
Consistency in this defir 33-15a, and several text	t classifications, so the change	made to (at lea e rows that sep	st) Tables 33-1a, 33-8,		ysel	boodt_8_	e is still drawn in draw.io for 0116_PD_SM.pdf is a redra in every way, except I've pla	awn version in Vis	
The suggested remedy	is one possible option for a p	aming change			iayout.				

The suggested remedy is one possible option for a naming change.

#### SuggestedRemedy

Proposed Response

Change "Multiple-Event classification" to "Marked-Event classification". (Terms like "Single Marked-Event" or # Marked Events could then be used.)

Response Status 0

Adopt yseboodt\_8\_0116\_PD\_SM.pdf In case any deviation is found between yseboodt\_8\_0116\_PD\_SM.pdf and the D1.5 SM, the D1.5SM is leading. Other comments against the SM to be executed on yseboodt\_8\_0116\_PD\_SM.pdf

Proposed Response Response Status **O** 

SuggestedRemedy

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/generalC/ 33COMMENT STATUS: D/dispatched A/accepted R/rejectedRESPONSE STATUS: O/open W/written C/closed Z/withdrawnSC 33.3.35SORT ORDER: Clause, Subclause, page, lineSORT ORDER: Clause, Subclause, page, lineSC 33.3.35

Page 31 of 47 1/11/2016 10:45:30 AM

<i>Cl</i> <b>33</b> <i>SC</i> <b>33.3.3.5</b> Yseboodt, Lennart	P <b>126</b> Philips	L <b>1</b>	# 202	Cl 33 SC 33.3.5 Schindler, Fred	P <b>130</b> Seen Simply	L 11	# 67
,				,			
Comment Type T	Comment Status X			Comment Type TR	Comment Status X		
Autoclass is still missin	g from the PD SD.				replaced Table 33-8 to improve table consumes most of the pa		
SuggestedRemedy					some readers too much time to		
Adopt yseboodt_5_011	6_Autoclass_PD_v100.pdf					·	
Proposed Response	Response Status <b>O</b>			provides two solution	ted to others marked COMMEN s, one that provides a translatio ND corrects an error covered in	n of the table ar	
C/ 33 SC 33.3.3.5	P 126	L <b>4</b>	# 213	SuggestedRemedy			
Yseboodt, Lennart	Philips	L <b>4</b>	π 213	PREFERRED:			
,					nt on line 4 that references Tab		
Comment Type TR	Comment Status X				e physical layer classification. Ty .6) while Type-2, Type-3 and Ty		
	al entry arc into IDLE has foll set) + !power received ] * mc			classification. "			
voltage drops below Vr SuggestedRemedy Replace condition by: (Vpd < Vrese	to allow a global override to e eset. et) * mdi_power_required * !p lt_7_0116_idlestuck.pdf			"All PDs shall provide classification (see 33 classification. DLL c	nt on line 4 that references Tab physical layer classification. Ty .6) while Type-2, Type-3 and Ty classification may be omitted by rawing more than Class 3 powe	/pe-1 PDs optio /pe-4 PDs shall Type 3 or Type	nally provides DLL provide DLL
Proposed Response	Response Status 0						
				Proposed Response	Response Status O		
C/ 33 SC 33.3.3.5	P 126	L <b>4</b>	# 212				
Yseboodt, Lennart	Philips						
	Comment Status X s variable V_Reset which isr wrong in 802.3-2012 as well.	i`t listed in the c	constants section.				
SuggestedRemedy	Ç alı a						
Add:							
	Reset voltage (see Table 33	-17)"					

Proposed Response Response Status **0** 

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

CI 33 SC 33.3.5

C/ 33 SC 33.3.5 Schindler, Fred	P <b>130</b> Seen Simply	L <b>37</b>	# 60	CI 33 Schindler,	SC <b>33.3.5.2</b> Fred	P 132 Seen Simply	L <b>46</b>	# 79
Comment Type TR	Comment Status X			Comment		Comment Status X		
"Single-signature PDs Data Link Layer classification (see 33.6	not capable of drawing more that	an Class 3 po	wer levels may omit	"It is n	xisting text, ot recommende electrical load.	ed to use different class signati	ures if the duals	ignature PD powers a
	nit new PDs to omit DLL, which	is not a goal	of this standard. Type	should	d be rewritten to	show preference.		
3 and 4 PDs are requir	ed to provide DLL support.			Suggestee	dRemedy			
	d to others marked COMMENT	-2.			ce the reference signature PDs	ed text with, with a single electrical load sho	ould use the sam	ne class signature."
SuggestedRemedy Strike footnote-1				Or use	2			
Proposed Response	Response Status 0			"It is r	,	nat Dual-signature PDs with a s	single electrical	load use the same
				Proposed	Response	Response Status 0		
C 33 SC 33.3.5	P <b>130</b>	L <b>41</b>	# 61					
Schindler, Fred	Seen Simply			C/ 33	SC 33.3.7	P 135	L 18	# 15
Comment Type TR	Comment Status X			Darshan, `		Microsemi	- 10	
Multiple-Event	ype 4 PDs at Class 4 or greate 3.3.5.2) and Data Link Layer cla		·	"Input	51			
	nit new PDs to omit DLL, which			Suggestee	dRemedy			
accomplish this appear	t both 2-Event class signature (	0 ,		"Input To:	ge from: voltage per pai DC voltage per			
This comment is relate	d to others marked COMMENT	-2.		Proposed	Response	Response Status <b>0</b>		
SuggestedRemedy								
	sentence with, ype 4 PDs shall implement both < Layer classification (see 33.6)		ent class signature (see					
Proposed Response	Response Status 0							

CI 33 SC 33.3.7

C/ 33 SC 33.3.7	P 137	L <b>6</b>	# 40		3.3.7.3	P 138	L <b>41</b>	# 30
Darshan, Yair	Microsemi			Darshan, Yair		Microsemi		
Comment Type ER	Comment Status X			Comment Type	E	Comment Status X		
Table 33-18 item 7 pa operating power" SuggestedRemedy	arameter name "Peak operating	power" need to	be "Total peak	"Inrush current	is drawn du	Table reference number s uring the startup period be t with Vport_PD-2P require	ginning with the	
	item 7 parameter name "Peak c	perating power	11	lt ab avid ba Ta	1. 22.40			
to:		perating power		It should be Ta				
"Total peak operating	power"			SuggestedRemedy				
Proposed Response	Response Status <b>O</b>					uring the startup period be t with Vport_PD-2P require		
C/ <b>33</b> SC <b>33.3.7</b> Darshan, Yair	P <b>137</b> Microsemi	L <b>30</b>	# 18	Proposed Respons	e F	Response Status O		
Comment Type ER Table 33-18 items 11	Comment Status X and 12 (PD power supply turn of	on voltage, PD	power supply turn off	C/ 33 SC 3 Darshan, Yair	3.3.7.3	P <b>138</b> Microsemi	L <b>42</b>	# 27
voltage, and PD class	sification stability time need to b	e per pairset.			TR	Comment Status X		
SuggestedRemedy						nish lirush within Tinrus-2	P min is only if F	PSE is incharge of
Add to each paramet	er name of items 11 and 12: "pe	r pairset"		controlling linru	s i.e. Cpd<	=180uF and if PD is limitir		
Proposed Response	Response Status 0			Cport>180uF s	ion makes o time is no	sense to me since it fits th ot a concern. ot clear from clause 33.3.7	Ū	ion to support
	P 137	L 53	# 62	SuggestedRemedy				
	Seen Simply			To be discusse		oup.		
Schindler, Fred Comment Type TR	Seen Simply Comment Status X			To be discusse	d by the gro			
Schindler, Fred Comment Type <b>TR</b> A"The PD shall turn of value when fed by VF	Seen Simply	-2P max (as de	fined in Table 33-11)	,	d by the gro	oup. Response Status <b>O</b>		
Schindler, Fred Comment Type TR A"The PD shall turn of value when fed by VF with a series resistan The "valid Channel R restricted to Rch, whi	Seen Simply <i>Comment Status</i> X on or off without startup oscillation Port_PSE-2P min to VPort_PSE	-2P max (as de nnel Resistance nge of channel r sistance. The s	fined in Table 33-11) e." resistance values was tandard provides	To be discusse	d by the gro			
Schindler, Fred Comment Type TR A"The PD shall turn of value when fed by VF with a series resistan The "valid Channel R restricted to Rch, whi	Seen Simply Comment Status X on or off without startup oscillation Port_PSE-2P min to VPort_PSE ce within the range of valid Char esistance", covers the entire range ch is the worst-case channel rest	-2P max (as de nnel Resistance nge of channel r sistance. The s	fined in Table 33-11) e." resistance values was tandard provides	To be discusse	d by the gro			

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: Clause, Subclause, page, line

Response Status 0

Proposed Response

C/ 33 SC 33.3.7.3 Page 34 of 47 1/11/2016 10:45:30 AM

CI 33 SC 33	.3.7.3	P 138	L <b>42</b>	# 84	CI 33	SC :	33.3.7.3	P 139	L <b>26</b>	# 32
Picard, Jean		Texas Instrum	ents		Darshan,	Yair		Microsemi		
Comment Type	TR Com	nment Status X			Comment	Туре	Е	Comment Status X		
		y state and is charged min per Table 33–11."		al value. This period		e 33-17a ge "PSE		rs Cx" to "PSE sees Cx".		
For more clarity	. a link to the P	SE inrush section is r	needed.		Suggeste	dRemed	ly			
SuggestedRemedy " CPort has re	ached a steady an TInrush-2P r	y state and is charged nin per Table 33–11, v	l to 99% of its fina	al value. This period imum inrush behavior	"PSE to: "PSE	ge from: encount sees" urrences	ers" ' in Figure	33-17a.		
Proposed Response	e Resp	onse Status <b>O</b>			Proposed	Respon	se	Response Status O		
C/ 33 SC 33	.3.7.3	P 138	L <b>43</b>	# 85	C/ 33	SC :	33.3.7.3	P 139	L <b>42</b>	# 19
Picard, Jean		Texas Instrum	ents		Darshan,	Yair		Microsemi		
Comment Type	TR Com	nment Status X			Comment	Туре	ER	Comment Status X		
Referring to Clas must ensure tha within Tinrush-2	ss 3 is mislead at regardless of P min, while no	imum of Class 3 power ling and incorrect. Wh its load power consul- ot drawing more than 4	at we want to say mption, its capac 400 mA total (cap	y is a type 2 or 3 PD itor must be charged bacitor recharge +	The o isolate Curre	ed and C	ntent for the content of the content	e Dual Signature PD drawing ( (or <=2*Cx) when it is not is nows isolated so the label nee	olated.	
load power). We PSE.	e also want to a	pply this rule to type	4 PD when conne	ected to Type 1, 2 or 3	Suggeste	dRemed	ly			
SuggestedRemedy						ge line 4 <=2*Cx.		e 33-17a from:		
Remedy:					0	v				
Remedy: "Single signature	e PDs with ass	igned class 0-6 shall l	behave like a Typ	be 1 PD for at least	Cport	=2 0x.				
Remedy:		igned class 0-6 shall l onse Status <b>O</b>	behave like a Typ	be 1 PD for at least	Proposed		se	Response Status 0		

CI 33 SC 33.3.7.3

Cl 33 SC 33.: Schindler, Fred	<b>3.7.4</b> <i>P</i> <b>140</b> Seen Simply	L <b>2</b>	# 102	C/ <b>33</b> Yseboodt, L	SC 33.3.7.5	P <b>142</b> Philips	L 18	# 203
						•		
Comment Type T		d DDook mov "	neovideo o requirement	Comment Ty		Comment Status X		
	k operating power shall not excee pes. The value Ppeak is not define			•		T min which no longer exists	<b>.</b>	
appears to be a t related to Ppeak	ypo. I suspect the intended requi	rement is covere	d by requirements	SuggestedR Change	<i>emedy</i> to T CUT-2P mi	n		
SuggestedRemedy				Proposed R	-	Response Status <b>O</b>		
	king the line on p140 , power shall not exceed PPeak ma	ax." because it ha	as no meaning.					
Proposed Response	Response Status 0		Ŭ	CI 33	SC 33.3.7.10	P 145	L <b>8</b>	# 44
				Darshan, Ya	ir	Microsemi		
C/ 33 SC 33.	3.7.4 <i>P</i> 140	L7	# 50	Comment T	rpe TR	Comment Status X		
Bennett, Ken	Sifos Techno		# 50	The text		Ds shall not exceed Icon-2F	unh for longor	than TCLIT 2P min as
Comment Type E		ologico, m				any pair. PDs shall"	-unb for longer	
		for ourroat that is	adudaa AC rianla					
	), which discusses PD lport limits dundant and adds unnecessary co		iciudes AC ripple,			fferentiate between single si ature PD that need to meet		
						ET both PDs need to be tes		
If PClass_PD and been met.	d Ppeak_PD limits are met, then e	everything discus	sed there will have	UNBAL	NCED PSE+Ch	annel to ensure that if PD ve t, it will not be changed by T	endor designed	his PD to meet Pclass
SuggestedRemedy					E PI unbalance		ype 5 and 1 ype	
Remove lines 7 t	hrough 49.					led PSE and Channel enviro	onment of unba	lance like he has with
Proposed Response	Response Status <b>O</b>			SuggestedR	PSE parameters	).		
				Change	•			
						Ds shall not exceed Icon-2F	-unb for longer	than TCUT-2P min as
Cl 33 SC 33.: Yseboodt, Lennart	3.7.5 <i>P</i> 142 Philips	L 6	# 175	defined To:	n Table 33–11 o	n any pair. PDs shall"		
,				"All Clas		ngle-signature PDs shall no		
Comment Type E	Comment Status X					in Table 33-11 on any pair.		
	e have "PClass PSE". should be swapped.					uation 33-3c for longer than and dual-signature PDs sha		as defined in Table 33-
SuggestedRemedy	· · · · · · · · · · · · · · · · · · ·			Proposed R	•	Response Status <b>O</b>		
Change to "PSE	PClass"							
Proposed Response	Response Status <b>O</b>							

C/ 33 SC 33.3.7.10

CI 33	SC 33.3.7.10	P 145	L <b>31</b>	# 22
Darshan, Ya	ir	Microsemi		

#### Comment Type T Comment Status X

The following comments received during D1.3 and D1.4 regarding 33.3.7.10: 1.D1.5 requires in its Editor Note in page 145 line 31 to address longer channel as well since it appears from the current text that Icon-2P\_unb need to be met only at short channel while it need to be met at all operating conditions.

On the other hand we know that if Icon-2P\_unb is met when PD is tested at short channel (low resistance), it will be the worst case so at longer channel it will meet the requirement too so there is no need to measure the current at two extreme points. To fix this issue we change the text by changing the text from "PD shall meet this requirement ..." to PD shall have the pair current measured...".

2. The old test looks like compliance test and some commenters said that we shouldn't do it also there are many examples that we specify test circuit and ask to meet parameters when measured with the test circuit (see 33.4.2, 33.4.3, 33.4.4 33.4.5, 33.4.6, 33.4.9.2.1 and many more in 802.3.

Anyhow, this issue was addressed also by the fix for item 1 with a requirement to meet the Icon-2P\_unb by measuring the current at specific conditions.

3.It need to be clear that the two common mode test resistors can flip locations and still the requirement should be met. This was fixed by "......two common mode resistances of Rsource\_min=0.16 ?  $\pm$  1% and one with Rsource\_max=0.19 ?  $\pm$  1%"

4.It was noted also that the test circuit doesn't address the fact that Rsource min/max are very low resistance and it is not clear if the connectors are part of Rsource and if it is, the connectors may affect very much the total value of Rsource etc. To fix this problem the following changes were made:

a)The drawing of the test circuit was modified to show clear boundaries of Rsourc min/max b)The effect of the test circuit connector resistance on Rsource is minimized by specifying max connector resistance (plug of the test circuit, it is practical to use in test circuit side high quality connector) and substructing it from Rsource. In addition we increase the Rsource ABS numbers by 5% and allow 5% variations with negligible effect on current measurements. The PD RJ45 Jack is not part of the test circuit.

5. Differentiating between DS and SS PD in order to ensure DS PDs meets lcon-2P\_unb as defined in Equation 33-3c with unbalanced PSE and channel.

#### SuggestedRemedy

Change the text per darshan\_01\_0116.pdf.

Proposed Response Response Status **O** 

CI 33	SC 33.3.8	P 145	L <b>46</b>	# 68
Schindler,	Fred	Seen Simply		

Comment Type TR Comment Status X

#### The existing text,

"A Type 1 or Type 2 PD, or a PD which does not detect a long first class event, shall in addition show the input impedance with resistive and capacitive components defined in Table 33-19."

I assume PDs that want to be very power efficient would draw close to 0 current that would be swamped by the current drawn by Rpd\_d of Table 33-19. Only Type 3 and 4 PDs are provided requirements for Autoclassification.

The text, "or a PD which does not detect a long first class event" grants new PD Types with Autoclassification an allowance that would break compatibility legacy AC disconnect PSEs.

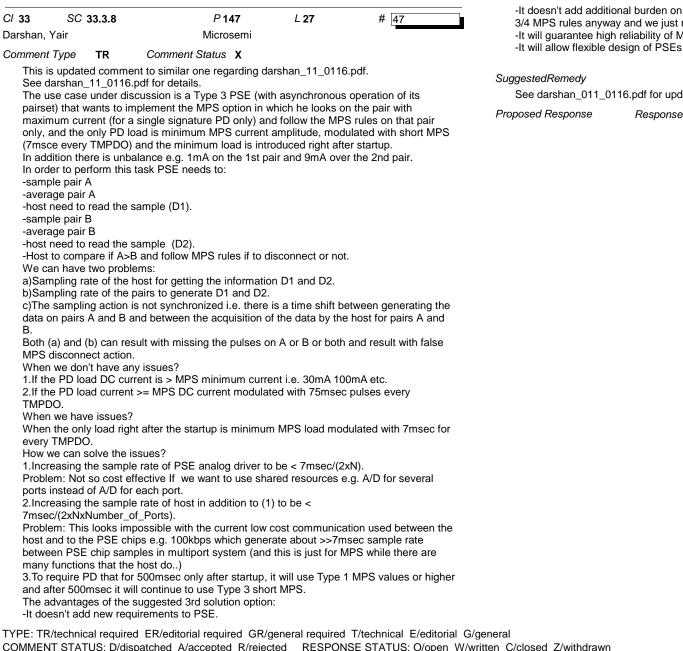
#### SuggestedRemedy

Task Force should discuss the implications of this. The preferred solution is replace the referenced text with,

"All PDs shall show the input impedance with resistive and capacitive components defined in Table 33-19 when connected to a Type 1 or 2 PSE."

This permits new systems to be power efficient and legacy systems to interoperate.

Proposed Response Response Status **O** 



SORT ORDER: Clause, Subclause, page, line

-It doesn't add additional burden on PD since PD need to support both Type 1/2 and Type 3/4 MPS rules anyway and we just reuse it. -It will guarantee high reliability of MPS detection at the PSE

C/ 33

SC 33.3.8

See darshan 011\_0116.pdf for updated comment and remedy.

Response Status **O** 

C/ 33	SC 33.3.8	P 147	L 27	# 45		allow flexible d	n reliability of MP esign of PSEs	o detection a		
Darshan	n, Yair	Microsemi			Suggeste	dRemedv	Ū.			
Comme	nt Type TR	Comment Status X				-	16.pdf for updat	ed comment	and remedy	
See	darshan 11 01	16.pdf for details.							and formouy.	
		discussion is a Type 3 PSE (wi	th asynchronou	is operation of its	Proposed	Response	Response S	status O		
		o implement the MPS option in								
		or a single signature PD only) a					_	D / - /		"
		D load is minimum MPS current			CI 33	SC 33.6.3.3	3	P 171	L 14	# 48
		00) and the minimum load is int Inbalance e.g. 1mA on the 1st p			Bennett, k	Ken		Sifos Techno	ologies, In	
		his task PSE needs to:		ver the zhu pail.	Comment	Type <b>TR</b>	Comment S	Status X		
	nple pair A				lt see	ms like PSF_DI	LL_POWER_TY	PE should ha	ve been change	d to
	erage pair A									in 33.3.3.3. Also, the
-sen	nd the sample to	the host (D1).					ssues discussed		, <u>.</u>	,
	nple pair B									
	erage pair B					3.3 definition (P				
	nd the sample to			- 1				variable that	indicates the Typ	be of the PSE by which
	can have two pr	A>B and follow MPS rules if to a	disconnect of h	UL.		D is being powe				a Diagram which is
		he host for getting the information	on D1 and D2				that was assum			e Diagram, which is
		he pairs to generate D1 and D2			based	rupon nie rype			on the anocation.	
c)́Th	ne sampling action	on is not synchronized i.e. there	is a time shift	between generating the	33.3.3	3.3 definition (pg	g 124, ln 17):			
	a on pairs A and	B and between the acquisition of	of the data by th	ne host for pairs A and	PSE_	DLL_POWER_	LEVEL: a contro	l variable out	put by the PD po	wer control state
В.					0	( 0	8) that indicates	the power lev	el of the PSE by	which the PD is being
	() ()	result with missing the pulses of	on A or B or bot	h and result with false	powe					
	S disconnect act en we don't have						L_POWER_LEV			the state of second second
		current is > MPS minimum curr	entie 30mA 1	00mA etc	PSE_	DLL_POWER_	TYPE. Also, a g	iven value do	es not convey a	single power level.
		rent >= MPS DC current modula			Suggeste	dRemedy				
	PDO.				Chan	ge all instances	of PSE_DLL_PO	OWER_TYPE	to PSE_DLL_P	OWER_LEVEL.
	en we have issue									
		right after the startup is minimu	m MPS load mo	odulated with 7msec for		ge the definition				
	ry TMPDO.									ower control state
	v we can solve the	ne issues? nple rate of PSE analog driver t	a ha k 7maaa/(	2×NI)	Class		indicates the mir	nimum PSE I	ype capable of p	providing the assigned
		t effective I few want to use sha								
	ead of A/D for ea			.g. AD for several ports	Proposed	Response	Response S	Status O		
		nple rate of host in addition to (	1) to be <							
7ms	sec/(2xNxNumbe	er_of_Ports).								
Prob	blem: This looks	impossible with the current low	cost communio	cation used between the						
		chips e.g. 100kbps which gene								
	veen PSE chip s host do)	amples (and this is just for MPS	s while there are	e many functions that						
	,	for 500msec only after startup,	it will use Type	1 MPS values or higher						
		t will continue to use Type 3 sho								
		requirements to PSE.								
		ional burden on PD since PD ne	ed to support b	ooth Type 1/ 2 and Type						
3/4	MPS rules anyw	ay and we just reuse it.								
ΤΥΡΕ· Τ	R/technical requ	uired ER/editorial required GR/	deneral require	d T/technical E/editorial	G/general			C/ 3	3	Page 39 of 47
		direct Envedicinal required Ory								

COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Clause, Subclause, page, line

C/ 33 SC 33.6.3.3 Page 39 of 47 1/11/2016 10:45:30 AM

33	SC 33.6.3.	3 H	P 171	L 26	# 51	Cl 33	SC	33.7.6	P 143	L 11	# 5
ennett, Ke	en	Sife	os Technolo	gies, In		Darshan,	Yair		Microsemi		
omment 7	Type TR	Comment State	us X			Comment	Туре	TR	Comment Status X		
PSE_P diagran PROBL actual I PSE_P	POWER_LEVE n (Figure 33– LEM: It convey PSE Type. POWER_LEVE	EL is defined in 33.6. 16) to indicate the Ty ys the PSE Type bas	.3.3 as "a co ype of PSE I sed upon allo .3.3 as "a co	ontrol variable o by which it is bo ocation, which ontrol variable t	ach has innaccuracies. butput by the PD state eing powered" may be lower than the hat indicates to the PD	PSE I 33.2.7 contir The p	D shall c PI as de 7.2 defir nue to op problem	efined in 3 nes the tra perate. is that it is	operate without interruption i 3.2.7.2." Insients at the PSE PI so whe s not clear what should we explavior is applied directly to the	n connected to Dect from the Pl	the PD, the PD need t
PROBL		t convey a single po			alue of 3 could be an	It is o	bvious t	that the tra	ansients in the PSE PI are ide ne operating scenarios.		transients at short
ıggestedl	Remedy					Suggeste	dReme	dy			
PSE_P minimu			the assigne		agram that indicates the	"A PC PSE I To: "A PC	PI as de ) shall c	continue to efined in 3 continue to	operate without interruption i 3.2.7.2." operate without interruption i at the PD PI as defined in 33.2	n the presence	
						Proposed			Response Status <b>O</b>	,,,	
						C/ <b>33</b> Yseboodt		<b>33A.3</b> rt	P <b>197</b> Philips	L 13	# 176
						Sectio	3 Intra F on name		Comment Status X tance Unbalance" y word capitalized. uide.		
						Suggeste chanç			-pair resistance unbalance"		
						Proposed	Respor	nse	Response Status <b>O</b>		

CI 33 SC 33A.3

CI 33 SC 33A.4	P <b>197</b>	L <b>30</b>	# 177	C/ 33	SC 33A.5	P <b>198</b>	L <b>22</b>	# 180
/seboodt, Lennart	Philips			Yseboodt,	Lennart	Philips		
Comment Type E	Comment Status X			Comment	Туре Е	Comment Status X		
Unbalance in 4-Pair Section name has ev	very word capitalized. ither a REQUIREMENT or REC	·		Not cle involve Suggested	ear what 'i' is ab ed. <i>IRemedy</i>	nce Z i is the measured voltage out. Also choice of 'i' unfortuna	te since there a	
SuggestedRemedy				,	r: "The effective _pd_n"	resistance Z_n (where n is the	pair number) is	s the measured volta
Change to: "Pair-to-p	pair channel resistance unbalar	nce requirement	for 4-pair operation"	Proposed	• -	Response Status <b>O</b>		
Proposed Response	Response Status O			i ropoodu	10000100			
				C/ 33	SC 33B	P 201	L 1	# 192
C/ 33 SC 33A.5	P 198	<i>L</i> 1	# 178	Yseboodt,	Lennart	Philips		
Yseboodt, Lennart	Philips			Comment	Type ER	Comment Status X		
Comment Type E	Comment Status X			Page	numbers are mi	ssing for pages in Annex 33B.		
Figure 33A-4 is titled	"PSE PI unbalance specificati	on and E2EP2P	Runb"	Suggested	Remedy			
SuggestedRemedy				Add pa	age numbers.			
Change to "PD Resis	stance unbalance elements over	erview"		Proposed	Response	Response Status 0		
Proposed Response	Response Status <b>O</b>							
C/ 33 SC 33A.5	P 198	1.04	# 470	C/ 33	SC 33B	P 201	L <b>24</b>	# 181
C/ 33 SC 33A.5 Yseboodt. Lennart	P 196 Philips	L <b>21</b>	# 179	Yseboodt,		Philips		
,	Comment Status X			Comment	51	Comment Status X		
Comment Type E	d R Pair_ PD_min represent PI	) common mode		In Figu	ure 33B-1 it sho	ws "PD+Channel", this can be	misread as the	+ channel.
impedance of pairs of	of the same polarity. The effective comparison of the same polarity.	ive resistance Z		Suggested Chang	<i>lRemedy</i> ge to: "PD and C	Channel".		
SuggestedRemedy				Proposed	Response	Response Status O		
	d R Pair_ PD_min represent PI f the same polarity. The effectiv igure 4.							
Proposed Response	Response Status 0							

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

CI 33 SC 33B Page 41 of 47 1/11/2016 10:45:30 AM

CI 33 SC 33B.	2 P 203	L <b>6</b>	# 182	C/ 33	SC 33B.3	P 204	L <b>31</b>	# 13
Yseboodt, Lennart	Philips			Darshan, `	Yair	Microsemi		
Comment Type E	Comment Status X			Comment	Type ER	Comment Status X		
SuggestedRemedy	/2 in Fig 33B-3 are not referenced odt_1_0116_fig33b3_v100.pdf.	to anything.		followi "Verifi	ing text was forg	P_unb in step 6 confirms PSE		
In the measureme 2) Measure Vdiff 4) Measure Vdiff	nt recipe below, change as follows	3:		Suggested Chance	dRemedy ge from:			
Proposed Response	Response Status O			Verific confor To:	ation of Icon-2P mance to Equat	<b>、</b> ,	_	_
CI 33 SC 33B.	3 P 204	L <b>7</b>	# 183		mance to Equat	2_unb in step 6 confirms PSE ∣ tion (33–4f).	Rpse_max and i	xpse_min are in
Yseboodt, Lennart	Philips			Proposed	Response	Response Status O		
Comment Type E	Comment Status X							
Also PSE should b	s unclear if the load is a current si be PSE PI. el' should be 'PD and Channel'.	nk or a constan	t power load.	<i>CI</i> <b>33</b> Yseboodt,	SC 79.3.7.2 Lennart	P <b>225</b> Philips	L <b>54</b>	# 184
SuggestedRemedy Replace Figure by	yseboodt_6_0116_fig33b4_v100.	pdf		<i>Comment</i> Line m	<i>Type</i> <b>E</b> nissing at bottom	Comment Status X		
Proposed Response	Response Status <b>O</b>			Suggested Add lir				
Cl 33 SC 33B. Darshan, Yair	3 <i>P</i> 204 Microsemi	L <b>26</b>	# 14	Proposed	Response	Response Status 0		
Comment Type ER Typo in the text:				C/ <b>33</b> Yseboodt,	SC 79.3.7.2 Lennart	P <b>227</b> Philips	L <b>54</b>	# 185
"Swap R_max, R_ SuggestedRemedy	min, repeat steps 1 and 2."			<i>Comment</i> Line m	<i>Type</i> <b>E</b> nissing at bottom	Comment Status X		
Change from: Swap R_max, R_r	nin, repeat steps 1 and 2.			Suggested Add lir	•			
To: Swap Rload_max,	Rload_min, repeat steps 1 and 2.			Proposed	Response	Response Status O		
Proposed Response	Response Status 0							

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

CI 33 SC 79.3.7.2 Page 42 of 47 1/11/2016 10:45:30 AM

C/ 33 SC 79.4.2 Yseboodt, Lennart	P <b>232</b> Philips	L <b>49</b>	# 186	Cl 33 SC Anne Darshan, Yair	k 33B	P <b>201</b> Microsemi	L 8	# 41
Comment Type E Line missing at bottor	Comment Status X			Comment Type T [33.2.7.4.1 Page 10		ent Status X		
SuggestedRemedy Add line.				Annex B: Page 201 Background	- 204 in D1.5			
Proposed Response	Response Status <b>O</b>				ent and remed 3.2.7.4.1 (PSE	ly of 144 from D1.4 P2PRunb) there is	l: a link to Anne:	B which is normative
Cl 33 SC 333.2.7. Schindler, Fred	6 P 114 Seen Simply	L <b>26</b>	# 53	and contains shalls b) Annex 33B conta c) Also, the shalls a	ins: 2 shalls, 2 re very simila	2 musts. Do we ne to each other.		annex for 2 shalls?
Comment Type E	Comment Status X			The remedy for cor Proposed remedy:	TF to discuss	the 'musts' and eitl		
Formulas 33-7, 33-7a formula.	, 33-7b, and 33-7c are identical	and should be	replaced by one	The final remedy: T 33.2.7.4.1 seems li	ke a good can	didate.		•
SuggestedRemedy				Add "Editor's Note encouraged to worl		air working to mov	e the shalls to	clause 33. Readers are
Delete formulas 33-7a	a, 33-7b, and 33-7c.			Response to the co	mments above			
Replace references to corrected references	o the deleted formulas so that th are on page 111.	ney point to form	nula 33-7. The	not be overlooked f	or its shalls.	0		ments so annex B will ouse the test circuit
Proposed Response	Response Status O			simplest way to ach c)The shalls are no tests and for each t to clarify it. d)It was hard to mo	shall and son ieve annex B t exactly simila est different pa ve all the shal shall for the te	ne deleted by edito objectives without ar to each other, th arameters are teste ls to 33.2.7.4.1 as est methods in Ann	rial changes. So complicating the ey are referring ed. Some editor proposed, inste ex 33B without	o far Annex B is the e standard body. to different alternative ial changes were made
				SuggestedRemedy	-			
				See darshan_09_0	116.pdf			
				Proposed Response	Deenen	se Status <b>O</b>		

C/ 33B SC 33B	P 201	L 1	# 124	C/ 79 SC 79.3.2.6b P 218 L 1 # 193
Stover, David	LTC			Yseboodt, Lennart Philips
Comment Type E	Comment Status X			Comment Type ER Comment Status X
	33B tables and figures has be to "Table 33B-1" on line 12 is r		pears incorrect. For	Accepted Comment no. 205 from D1.4 cycle was not implemented. SuggestedRemedy
SuggestedRemedy				Implement comment no. 205 from D1.4.
Please reapply neces correctly in Annex 33	ssary numbering override to for B.	mat figure and t	table references	Proposed Response Response Status O
Proposed Response	Response Status 0			
				Cl 79 SC 79.3.2.6b P 218 L 34 # 81
C/ 79 SC 79.3.2	P 213	L 37	# 80	Schindler, Fred Seen Simply
Schindler, Fred	Seen Simply			Comment Type TR Comment Status X
Comment Type TR	Comment Status X			Please implement the accept D1.4 change to Bit 1 of Table 79.6b.
information string len	DP frame shown in Figure 33-3 gth is 20, which is incorrect.	IS 18 Octets.	ne value show in TLV	SuggestedRemedy Please implement the accept D1.4 change to Bit 1 of Table 79.6b. See comment 205.
information string len	gth is 20, which is incorrect.	IS 18 octets. II	ne value snow in TLV	
information string len SuggestedRemedy Replace the referenc	gth is 20, which is incorrect.	is 18 octets. Ti	ne value snow in TLV	Please implement the accept D1.4 change to Bit 1 of Table 79.6b. See comment 205.
information string len SuggestedRemedy Replace the referenc Proposed Response	gth is 20, which is incorrect. e value 20 with 18. <i>Response Status</i> <b>O</b>	is 18 octets. Ti		Please implement the accept D1.4 change to Bit 1 of Table 79.6b. See comment 205. Proposed Response Response Status O
information string len SuggestedRemedy Replace the referenc Proposed Response	gth is 20, which is incorrect. e value 20 with 18. <i>Response Status</i> <b>O</b>	L 6	# 54	Please implement the accept D1.4 change to Bit 1 of Table 79.6b. See comment 205.         Proposed Response       Response Status         O         Cl 79       SC 79.3.2.6b       P 220       L 1       # 82
information string len SuggestedRemedy Replace the referenc Proposed Response C/ 79 SC 79.3.2.4 Schindler, Fred	gth is 20, which is incorrect. e value 20 with 18. <i>Response Status</i> <b>O</b> 4 <i>P</i> <b>215</b> Seen Simply			Please implement the accept D1.4 change to Bit 1 of Table 79.6b. See comment 205.         Proposed Response       Response Status       O         Cl 79       SC 79.3.2.6b       P 220       L 1       # 82         Schindler, Fred       Seen Simply         Comment Type       TR       Comment Status       X         Table 79.6e is associated with section 79.3.2.6b but appears in the Link Aggregation T
information string len SuggestedRemedy Replace the referenc Proposed Response C/ <b>79</b> SC <b>79.3.2.4</b> Schindler, Fred	gth is 20, which is incorrect. e value 20 with 18. <i>Response Status</i> <b>O</b>			Please implement the accept D1.4 change to Bit 1 of Table 79.6b. See comment 205.         Proposed Response       Response Status       O         Cl 79       SC 79.3.2.6b       P 220       L 1       # 82         Schindler, Fred       Seen Simply         Comment Type       TR       Comment Status       X
information string len SuggestedRemedy Replace the referenc Proposed Response C/ 79 SC 79.3.2.4 Schindler, Fred Comment Type ER Fix the typo, "TLV"	gth is 20, which is incorrect. e value 20 with 18. <i>Response Status</i> <b>O</b> 4 <i>P</i> <b>215</b> Seen Simply			Please implement the accept D1.4 change to Bit 1 of Table 79.6b. See comment 205.         Proposed Response       Response Status       O         Cl 79       SC 79.3.2.6b       P 220       L 1       # 82         Schindler, Fred       Seen Simply         Comment Type       TR       Comment Status       X         Table 79.6e is associated with section 79.3.2.6b but appears in the Link Aggregation T clause. This Table does not belong in the LLDP section. It belongs in a section that covers Autoclassification usage for the PSE and PD, which is similar in design to 33.6.
information string len SuggestedRemedy Replace the referenc Proposed Response C/ 79 SC 79.3.2.4 Schindler, Fred Comment Type ER Fix the typo, "TLV"	gth is 20, which is incorrect. e value 20 with 18. <i>Response Status</i> <b>O</b> 4 <i>P</i> <b>215</b> Seen Simply			Please implement the accept D1.4 change to Bit 1 of Table 79.6b. See comment 205.         Proposed Response       Response Status       O         Cl 79       SC 79.3.2.6b       P 220       L 1       # 82         Schindler, Fred       Seen Simply         Comment Type       TR       Comment Status       X         Table 79.6e is associated with section 79.3.2.6b but appears in the Link Aggregation T clause. This Table does not belong in the LLDP section. It belongs in a section that covers Autoclassification usage for the PSE and PD, which is similar in design to 33.6. This section should provide a state diagram that covers information contained in the tal SuggestedRemedy         The Task Force should discuss the implications of this. For now I recommend, moving
information string len SuggestedRemedy Replace the referenc Proposed Response Cl 79 SC 79.3.2.4 Schindler, Fred Comment Type ER Fix the typo, "TLV" SuggestedRemedy Replace with "TLV."	gth is 20, which is incorrect. e value 20 with 18. <i>Response Status</i> <b>O</b> 4 <i>P</i> <b>215</b> Seen Simply			Please implement the accept D1.4 change to Bit 1 of Table 79.6b. See comment 205.         Proposed Response       Response Status       O         Cl 79       SC 79.3.2.6b       P 220       L 1       # 82         Schindler, Fred       Seen Simply         Comment Type       TR       Comment Status       X         Table 79.6e is associated with section 79.3.2.6b but appears in the Link Aggregation T clause. This Table does not belong in the LLDP section. It belongs in a section that covers Autoclassification usage for the PSE and PD, which is similar in design to 33.6. This section should provide a state diagram that covers information contained in the tal SuggestedRemedy
information string len SuggestedRemedy Replace the referenc Proposed Response Cl 79 SC 79.3.2.4 Schindler, Fred Comment Type ER Fix the typo, "TLV" SuggestedRemedy	gth is 20, which is incorrect. e value 20 with 18. <i>Response Status</i> <b>O</b> <b>4</b> <i>P</i> <b>215</b> Seen Simply <i>Comment Status</i> <b>X</b>			Please implement the accept D1.4 change to Bit 1 of Table 79.6b. See comment 205.         Proposed Response       Response Status       O         Cl 79       SC 79.3.2.6b       P 220       L 1       # 82         Schindler, Fred       Seen Simply         Comment Type       TR       Comment Status       X         Table 79.6e is associated with section 79.3.2.6b but appears in the Link Aggregation T clause. This Table does not belong in the LLDP section. It belongs in a section that covers Autoclassification usage for the PSE and PD, which is similar in design to 33.6. This section should provide a state diagram that covers information contained in the tal         SuggestedRemedy       The Task Force should discuss the implications of this. For now I recommend, moving reference table to a new section 33.6.5. Add the Editor's note below the table, "Editor's Note: Participants are encouraged to provide text and a state diagram to compare to provide text and a state diagram to compare to provide text and a state diagram to compare to provide text and a state diagram to compare to provide text and a state diagram to compare to provide text and a state diagram to compare to provide text and a state diagram to compare to provide text and a state diagram to compare to provide text and a state diagram to compare to provide text and a state diagram to compare to provide text and a state diagram to compare to provide text and a state diagram to compare to provide text and a state diagram to compare to provide text and a state diagram to compare to provide text and a state diagram to compare to provide text and a state diagram to compare to provide text and a state diagram to compare to provide text and a state diagram to compare to provide tex

C/ **79** SC **79.3.2.6b** 

CI <b>79</b>	SC 79.	3.2.6d	P 220	L 18	# 55	CI <b>79</b>	SC 7	9.3.7.1	
Schindler	, Fred		Seen Simply			Yseboodt	, Lennart		Ph
Commen	t Type E	R C	omment Status X			Comment	Туре	ER	Comment Stat
Table claus		sociated w	th section 79.3.2.6e but ap	opears in the	Link Aggregation TLV	79.3.7	7.1 PD m	easurem	ents refers to 'por
	ed <i>Remedy</i> the referer	ce table to	the clause that covers it.			field r	ured volta nay be in	age value cluded to	asured voltage val e at the port define o carry the PD's m
Proposed	l Response	Re	esponse Status O						ed energy value fi lue at the port de
						Suggeste	dRemedy	/	
CI <b>79</b>	SC 79.	3.7	P <b>224</b>	L 28	# 2				oltage value field i
Skinner,	John		Sifos Technolog	jies, In					or pairset as defir Ided to carry the F
Commen	t Type <b>T</b>	R C	comment Status X			define	ed in Tab	le 79-7a.	The PD's measu consumption valu
field a in ler	as 96 bits in igth. A 96 bi field length	length, an t field requ	9 octets in length. Table 3 d Table 79-7b defines the ires 12 octets, so the state ected, the TLV information	PSE measur d field length	ements field as 96 bits s are incorrect. Once	Proposed  Cl <b>79</b>		se <b>'9.3.7.1</b>	Response State
Suaaeste	dRemedy					Schindler	Fred		Se
Modi Modi	fy the TLV in fy the length	specified	string length field to indica in the TLV information strin ecified for the PSE measu	ng for the PD	measurements field to	Comment Existi		ER ay be im	Comment Stat proved by removi
Proposed	l Response	Re	esponse Status <b>O</b>			value	at the po	ort	age value field m The PD measure
Cl 79 Schindler	SC <b>79.</b> , Fred	3.7	P 224 Seen Simply	L <b>29</b>	# 83	PD's currei be inc	measure nt value a cluded to	d at the port	t defined in Table
Commen	t Type T	R C	omment Status X						d energy consum
			ne shown in Figure 33-3 is 26, which is incorrect.	24 octets. T	he value show in TLV		PD meas	ured volta	age value field ca
00	edRemedy ace the refe	rence value	e 26 with 24.			currei	nt value a	at the PI c	The PD measure defined in Table 7 energy consump
•	l Response		esponse Status <b>O</b>			Proposed			Response Stat
			.,				•		

P 224 L 38 # 194 Philips tatus X

port' when it should refer to PD PI + reword.

value field may be included to carry the PD's fined in Table 79-7a. The PD measured current value measured current value at the port defined in Table field may be included to carry the PD's measured defined in Table 79-7a."

I may be included to carry the PD's measured fined in Table 79-7a. The PD's measured current PD's measured current value at the PI or pairset as sured energy value field may be included to carry the alue at the PI or pairset as defined in Table 79-7a."

Proposed Response	Response Status	ο
-------------------	-----------------	---

CI 79	SC 79.3.7.1	P <b>224</b>	L 38	# 56
Schindler	r, Fred	Seen Simply		

tatus X

oving repeated text that is not required.

may be included to carry the PD's measured voltage

red current value field may be included to carry the

le 79-7a. The PD measured energy value field may

imption value at the port defined in Table 79-7a."

carries a PD measured voltage value at the PI red current value field carries a PD measured 79-7a. The PD measured energy value field nption value at the PI defined in Table 79-7a."

atus O

CI 79 SC 79.3.7.1

<i>Cl</i> <b>79</b> Schindler, F	SC <b>79.3.7.1</b>	P <b>224</b> Seen Simply	L <b>43</b>	# 57	<i>Cl</i> <b>79</b> Yseboodt		79.3.7.2	P : Phili	<b>224</b> ps
Comment T		Comment Status X			Comment	t Type	ER	Comment Status	s X
SuggestedF Replace Proposed R	e with "voltage".	Response Status <b>O</b>			value in Tal	ured volt field ma ble 79-7b	age value y be inclu o. The PS	easured voltage value e at the port defined uded to carry the PS E measured energy sumption value at the	l in Table E's mea / value fi
CI 79	SC 79.3.7.2	P 224	L 51	# 58	Suggeste	dRemed	У		
Schindler, F		Seen Simply	-01					voltage value field n	
	text may be im	Comment Status X proved by removing repeated		•	value as de carry	field ma	y be inclu Fable 79-	or pairset as defined uded to carry the PS 7b. The PSE's mea ured energy consump	SE's mea sured en
voltage defined PSE's r	value at the por in Table 79-7b. neasured currer	t The PSE measured current v nt value at the port defined in <sup>-</sup>	alue field may	be included to carry the	Proposea	l Respon	se	Response Status	Ο
	value field may e PSE's measu	be included to red energy consumption value	e at the port de	fined in Table 79-7b."	CI 79	SC 7	79.3.7.3	P	226
Suggested					Yseboodt	, Lennart	t	Phili	ps

SuggestedRemedy

Replace referenced text with,

"The PSE measured voltage value field carries a PSE measured voltage value at the PI defined in Table 79-7b. The PSE measured current value field carries a PSE measured current value at the PI defined in Table 79-7b. The PSE measured energy value field carries a PSE measured energy consumption value at the PI defined in Table 79-7b."

Proposed Response

Response Status 0

CI 79	SC 79.3.7.2	P <b>224</b>	L 51	# 195
Yseboodt,	Lennart	Philips		
Commont		Commont Status V		

it should refer to PSE PI + reword.

may be included to carry the PSE's ble 79-7b. The PSE measured current easured current value at the port defined field may be included to carry the PSE's lefined in Table 79-7b."

included to carry the PSE's measured ble 79-7b. The PSE's measured current easured current value at the PI or pairset energy value field may be included to alue at the PI or pairset as defined in

Proposed Response		Response Status	0		
C/ <b>79</b> S Yseboodt, Len	SC <b>79.3.7.3</b> Inart	P 2 Philip		L <b>5</b>	# 196
Comment Type V_Port_PI		Comment Status _Port_PD-2P.	х		
SuggestedRen Fix.	nedy				
Proposed Res	ponse	Response Status	0		
CI <b>79</b> S Yseboodt, Len	SC 79.3.7.3	P 2 Philip		L 8	# 197
	PSE is capital	<i>Comment Status</i> lized. _PORT-2P is capita			
SuggestedRen Change to	):	2P, I_Port and I_Por	t-2P resp	ectively.	

Proposed Response

Response Status 0

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

CI 79 SC 79.3.7.3 Page 46 of 47 1/11/2016 10:45:30 AM

CI 79 SC 79.3.7	7.3 P 228	L 28	# 204	C/ 1.4	SC 1.4	P 20	L <b>39</b>	# 21	
Yseboodt, Lennart	Philips			Darshan, Y	/air	Microse	emi		
Comment Type T	Comment Status X			Comment	Туре Т	Comment Status	х		
In order t	e value of the Power price indep to future-proof this field, a bit sh			"Туре	3 PD: A PD th	Type3 and 4 PDs the sup lat provides a Class 1 to 0 ments multiple-Event clas	Člass 6 signature du		
SuggestedRemedy						IEEE 802.3, Clause 33).			
The MSB bit set to 1 will have a reserved meaning. Add a new row to Table 79-7c Bit Function Value/meaning 15 Future use 1 = Reserved / ignore field . 0 = Power price index in bits 14:0 Change existing row:				"Type 4 PD: A PD that provides a Class 7 or 8 signature during Physical Layer classification, implements multiple-Event classification, is capable of Data Link Layer classification, and accepts power on both Modes simultaneously (see IEEE 802.3, Clause33)."					
		Power price index	a = decimal value of bits.	Suggested	IRemedy				
			are decimal 1 through			llowing proposed remedy 3 PD definition.	If there is no reasor	n why support of LLDP	
Proposed Response	Response Status O			"Type classif	ication, impler	at provides a Class 1 to nents multiple-Event clas	ssification, and acce		
C/ 79 SC 79.3.7		L <b>28</b>	# 198	simulta To:	aneously (see	IEEE 802.3, Clause 33).	1		
Yseboodt, Lennart	Philips Comment Status X			"Туре		at provides a Class 1 to			
Comment Type ER Table 79-7c is miss						nents multiple-Event clas ccepts power on both mo			
SuggestedRemedy Caption = "Power p	price index value field"			Proposed	Response	Response Status	0		
Proposed Response	Response Status O								
C/ 79 SC 79.3.7		L 34	# 199						
Yseboodt, Lennart	Philips								
Comment Type ER Table 79-7c, value	Comment Status X cell, missing space between '1	through65535'							
SuggestedRemedy Fix.									
Proposed Response	Response Status <b>O</b>								
-	,								

C/ 1.4 SC 1.4