-										
C/ 33A	SC 33A.3	P 171	L 13	# 1	C/ 33B	SC 33B	P 173	L 1	# 3	
Zimmerm	an, George	CME Consulti	ng, Inc.		Zimmerma	an, George	CME Cons	sulting, Inc.		
Comment	Type <b>TR</b>	Comment Status A		Annex	Comment	Туре Т	Comment Status D		Annex	
"Opei Inforn	ration for all types native text cannot	requires that the resistance thave requirements - no "sha	unbalance shall Ill" or "must" sta	l be 3% or less." Itements.	Perha requir	ps we moved ements on PS	too much to the annex. Anne Es that are not in the main b	ex 33B (normative ody of Clause 33.	e) appears to contain new The use of normative	
Suggeste	dRemedy				annex	es, per the IE	EE style guide is: "for conforr	mance test proced	dures, tables, or printed	
Repla	ace "shall" with "s	hould" in the above sentence			standa	ard."	aive annexes may also be us	sed for context-sp	ecinc applications of the	
Response ACCE	9 EPT IN PRINCIPL	Response Status <b>C</b> .E.			The key requirement references Equation 33-4b in 33.2.7.4.1, but it seems that 1 is a set of additional requirements, perhaps in conflict with the main body of th A lot of what is in this annex appears to be test procedures, but the main require seems to be here too, and maybe should be in the body of clause 33.					
strike	the word "shall".				Suggester	dRemedy	-,,			
C/ <b>33A</b> Zimmerm	SC <b>33A</b> an. George	P <b>171</b> CME Consulti	L <b>1</b> na. Inc.	# 2	Move end o	page 173, line f 33.2.7.4.1 pa	es 16 - 52 ("Equation (33-4b). ge 85, line 17.	" through "attach	hed to PSE PI." to the	
Comment	Type E	Comment Status A	0,	Editorial	Proposed	Response	Response Status Z			
All an	inexes should be	at the end of the book. I unde	erstand that the	v are easier to digest for	REJE	CT.				
task f remin	orce review where	e they currently are, therefore move them before WG ballo	e, at this time I s ot.	suggest an editorial note	This c	comment was	WITHDRAWN by the comme	enter.		
Suggeste	dRemedy				Yair to	work with Ge	orge.			
Add e "Edito end o Anne	editorial note imm prial note (to be re if the draft. Prior x 33A in the frame	ediately prior to Annex 33A: emoved prior to Working Grou to Working Group ballot, edit e book."	up ballot) - All an or should move	nnexes are to be at the Clause 79 before						
Response	è	Response Status C								
ACCE	EPT.									
EZ										

CI 33	SC 33.3.7.10	.1	P 119	L 19	# 4	CI 25	SC	25.1	P 1	L	1 # 6	
Zimmerma	an, George		CME Consultir	ng, Inc.		Zimmerm	an, Geo	orge	CME	Consulting, Inc	·	
Comment CONF "Rpain includ	<i>Type</i> <b>TR</b> FUSION IN Rpair: r_max and Rpair_ les the effect of V	Comment S min represent Port_PSE_diff	Status <b>A</b> is PSE and cha i as specified by	nnel effective s / Table 33–11 i	<i>Unbalance</i> ource impedance that tem 1a."	Comment Page Note Suggeste	<i>Type</i> number that the dRemed	ER rs jumped b re is anothe dy	Comment Status ack to 1. (this is go r jump back to 1 aft	A ing to make he er PDF page 2	Ea ell of your comment procession 200 (annex 33D start)	<i>litorial</i> ng)
This is "RPai of sar RPair same Do RI	s unclear, and pos r_max is the maxi ne polarity. _min is the minim polarity." Pair_min and RPa	ssibly in confli imum PSE con um PSE com ir_max includ	ct with P85 line mmon mode eff mon mode effe e the channel, o	s 10-14: rective resistan ctive resistance or are they just	ce in the powered pairs in the powered pairs of in the PSE? Are they	check them <i>Response</i> ACCE EZ	continu continu P EPT.	umbering p e from prev	arameters in frame ious document in bo <i>Response Status</i>	file for clause : ook. <b>C</b>	25, and annex 33D and mak	e
the co OVEF install	ombination of the RALL, or are they ation? (that seem	PSE and char just the greate is to be the ca	nnel? Are they n er and lesser of se, but I am not	naximum and n the two Rpair v t sure).	ninimum requirements alues in a given	C/ <b>30</b> Zimmerm	SC an, Geo	<b>30.9.1.1.4</b> orge	Р <b>7</b> СМЕ (	L Consulting, Inc	.1 # [7 ).	
SuggestedRemedy         Clarify what the definitions of Rpair_max and Rpair_min are. Delete either the definition on page 119 or the definition on page 85, and reference it in the other place.         Response       Response Status         ACCEPT.         Replace Rpair_max, Rpair_min with Rsource_max, Rsource_min in Table 33-18a, Figure 33-18a, and page 119 line 20.					e either the definition on blace. Table 33-18a, Figure	Comment PSE Suggeste Add e both ' Add s "The detec	<i>Type</i> Power F d <i>Remed</i> enumera PSE Pi entence enumera tion and	TR Pairs needs dy tted values: nouts on bo on line 12 ation "both" I power."	Comment Status updating to 4 pair a oth Alternative A and prior to "If a Clause indicates that PSE	A nd new conten B" 22": Pinout uses bo	Mange its of 33.5.1.1.4 oth Alternatives A and B for	əment
CI 33A Zimmerma	SC <b>33A.5</b> an, George		P 172 CME Consultir	L <b>10</b> ng, Inc.	# 5	Response ACCE	e PT.		Response Status	С		
Comment "Rpair Rpair PSE. guide	<i>Type</i> <b>T</b> r_max_PD" and "I _max and Rpair_r This is the only p line, it needs a de	Comment S Rpair_min_PD min were defin blace Rpair_m finition.	Status <b>A</b> )" led twice before ax_PD (or min)	(pages 107 ar occur in the dr	<i>Annex</i> d 141) in terms of the aft. Even though its a	EZ						
Suggester Define	dRemedy e Rpair_max_PD, ded definition).	Rpair_min_P	D. in 33A.5. (so	rry, I really don	't know what is the							
Response ACCE	EPT IN PRINCIPL	Response S E.	Status C									
Add "	Editor's Note: Ya	Ir to define for	next meeting."									

C/ 30 SC 30.9.1	.1.6 <i>P</i> 7	L <b>53</b>	# 8	C/ <b>30</b>	SC 30.1	2.2.1.14	P 14	L 23	# 10
Zimmerman, George	CME Consu	lting, Inc.		Zimmerma	n, George		CME Consu	lting, Inc.	
Comment Type TR	Comment Status A		Management	Comment	Туре Т	R Comm	nent Status A		
Classifications in C	ause 30 need updating to inclu	ide new PD class	es	"A GE	Γ attribute t	hat returns a b	it string indicating	whether the local	system is a PSE or a
SuggestedRemedy				PD and Needs	to be exter	t is Type 1 or T nded to include	ype 2. The first bit types 3 & 4	indicates Type 1	or Type 2."
Add Classes 5 thro Add editor's note to	ugh 8, and Autoclass to the list P8 L5 (after end of paragraph)	of enumerated v	alues.	Suggested	Remedy				
"Editor's Note (to be	e removed prior to Working Gro	oup ballot): linkag	e to management	Add "E	ditor's Note	e (to be remove	ed prior to Working	g Group Ballot) - N	leed to extend
are bits available in	802.3-2015 Clause 33 PSF st	now to report me atus register."	bre classes than there	a∟iup∧				lallage types 5 al	iu 4.
Response	Response Status C			Response	אוסס ואו דר	Respoi	nse Status C		
ACCEPT IN PRINC				ACCE		NCIFLE.			
				OBE b	y 165				
OBE by 165				C/ 30	SC 30.1	2.2.1.11	P 13	L 36	# 11
C/ 33 SC 33.5.1	.2 P 138	L <b>40</b>	# 9	Zimmerma	n, George		CME Consu	lting, Inc.	
Zimmerman, George	CME Consu	lting, Inc.		Comment	Гуре Е	Comm	nent Status A		Editorial
Comment Type TR	Comment Status A		Management	30.12.	2.1.11 throu	ugh 30.12.2.1.1	13,		
Need to allocate cla	esses 5 through 8 and autoclas	s.		30.12.2	2.1.19 throu	ugh 30.12.2.1.2	20,		
SuggestedRemedy				30.12. 30.12.	2.1.22 throu 3.1.1 throu	ugn 30.12.2.1.3 ah 30.12.3.1.4	33,		
replace "101 Invalio	Class" with "101 Class 5"			30.2.3	1.11 throug	gh 30.2.3.1.13,	and		
replace "110 Reser	ved" with "110 Class 6"			30.2.3	.1.19 throu	igh 30.2.3.1.27	are not related to	PoE and are not	needed in the draft.
add after table - "E	ditor's Note (to be removed bef	ore Working Gro	ıp ballot) - Status	Suggested	Remedy				
register bits are use	ed up, and clause 22 address s	pace is used up	as well. Contributions	Delete	P13 L36 th	hrough P14 L14	1		
requested as to how	v to expand status, at a minimu	um to report Clas	s 8 PD and Autoclass"	Delete	P17 L20 th	rough P20 L4			
In 33.5.1.2.10, dele	te P140 L36: "The combinatior	ns '110' and '111'	for bits 12.6:4 have	Delete	P20 L13 th	nrough P21 L7			
been reserved for f	uture use."			Delete	P22 L17 th P25 L1 thr	1700gh P22 L49 200gh P26 I 44	9, and		
Response	Response Status C			Response	1202101	Respon	nsa Status <b>C</b>		
ACCEPT IN PRINC	IPLE.			ACCE	РΤ.	пезро			
Add after table - "E	ditor's Note (to be removed bef	ore Working Gro	up ballot) - Status						
register bits are use	ed up, and clause 22 address s	pace is used up	as well. Contributions	EZ					
requested as to how	v to expand status, at a minimu	um to report Clas	S & PD and Autoclass"						

C/ 30	SC 30.12.3	P <b>12</b>	L 28	# 12	C/ 33	SC 33.2.5.0a	P 66	L <b>35</b>	# 14		
Zimmerma	in, George	CME Consultin	g, Inc.		Zimmerma	an, George	CME Co	onsulting, Inc.			
Comment	Type ER	Comment Status A		Editorial	Comment	Type <b>TR</b>	Comment Status A		Connection Check		
Need o 30.12.2	clause 30.12 he 2.1.5 without he	ader, otherwise Table of conter irarchy	nts runs straight	t from 30.10.2 to	"The c timing	connection check sh requirements or po	nall be rerun before ap ower is absent on both	pplying power if pov n pairsets simultane	ver up fails to meet the cously after reaching the		
Suggested	lRemedy				POWI The ti	=R_UP state." ming of this key spe	ecification is unclear.	how long does pow	ver have to be absent for		
Insert o 30.12 I	on P34 L28: Layer Managem	ent for Link Layer Discovery P	rotocol (LLDP)		from b	ooth pairsets?					
30.12.2 30.12.2	2 LLDP Local S 2.1 LLDP Local	ystem Group managed object o System Group attributes	class		'if pow any of	er up fails to meet them?	the timing requiremer	nts' is unclear - whic	h timing requirements,		
Deenenee					Suggestee	Remedy					
ACCEI	PT.	Response Status C			Add 'ii requir (sorry	n Section TBD' after ement that needs to , but its so unclear I	r "meet the timing req b be met explicitly by i I don't know which one	luirements", to refer name, table , sectio e to point to)	ence the timing n, or equation number.		
EZ					۸dd 'f	or at loast TRD mee	oc' after 'er power is a	beent on both pairs	ate simultanoously offer		
CI 33	SC 33.1.1	P <b>27</b>	L <b>52</b>	# 13	reachi	ng the POWER_UF	P state."	bsent on both pairs	ets simulaneously aller		
Zimmerma	in, George	CME Consultin	g, Inc.								
Comment	Type TR	Comment Status A		Objectives	Response Response Status C						
"c) Cor	mpatibility—Cla	use 33 utilizes the MDIs of 10E	ASE-T, 100BA	SE-TX, and 1000BASE-	ACCEPT IN PRINCIPLE.						
I, with 10GBA	SE-T operation	The clause does not addres , the channel model specified i	n Clause 55 ne	eds to be met without	Add 'in both Table 33-3a and section 33.2.7.12' after "meet the timing requirements"						
d) Sim	to DTE Power	vering system described here i	s no more burd	ensome on the end	Chang	ge to:					
users t	than the require	ments of 10BASE-1, 100BASE	-1X, or 1000BA	15E-1."	"or if the state machine reaches the IDLE state."						
Needs	to be modified	to reflect addition of 10GBASE	-Т.		Chang	ge "shall be" to "is".					
Suggested	IRemedy				·						
change 10GBA Delete change	e first sentence \SE-T without n "The clause do e item (d) to rea	of item (c) to read: "10BASE-1 nodification." es not address the operation o d "10BASE-T, 100BASE-TX, 1	, 100BASE-TX, f 10GBASE-T." 000BASE-T, or	1000BASE-T and 10GBASE-T."							
Response		Response Status C									
ACCE	PT IN PRINCIP	LE.									
Strike	out all the remo	ved text.									
Didn't v	we remove the	objectives section completely?									
We Die	d. Line 40 has t	he editing instruction to delete	section 33.1.1.								

Zimmerman, George       CME Consulting, Inc.       Zimmerman, George       CME Consulting, Inc.         Comment Type       ER       Comment Status A       Editorial         Table 33-1, header: R_ch (the underscore denotes subscript)       This parameter appears everywhere else as R_Ch, with the C capitalized. The nomenclature for this is vy close to R_Chan, which is the channel max, so its confusion enough already.       33.2.7.1 is forest green (an external reference) on item 1 - elsewhere reference. Needs to be a live cross reference.         Suggested/Remedy       Suggested/Remedy       Same goes for 33.2.9 twice, on lines 49 & 52 of page 81 (items 18 & 8 Usy coress references, and main (change Table 33-1 header to R_Ch)       Response Status C         EZ       Ci 33 SC 33.2.6.2       P76       L 10       # If5         EZ       Comment Type       ER       Comment Status A       Editorial         "See Annex 33E for an overview of Multiple-Event Physical Layer classification."       CME Consulting, Inc.       Comment Type       ER       Comment Status A       Editorial         Suggested/Remedy       Delse 'See Annex 33E for an overview of Multiple-Event physical Layer classification."       CME Consulting, Inc.       Comment Type       ER       Comment Status A       C // Sa SC 33.4.4       P 125       L 8         Suggested/Remedy       Delse 'See Annex 33E. cr ansersize and size on an overview of Multiple-Event physical layer classification outcomes on type 3 and type 4 PSEs, and 33E	# 17	P79 L14	SC 33.2.7	C/ 33	# 15	L 22	P 30	SC 33.1.4	C/ 33
Comment Type ER Comment Status A Editorial Table 33-1. header R_ch (hit underscore denotes subscript) This parameter appears everywhere else as R_Ch with the C capitalized. The nonenclature for this is very close to R_Chan, which is the channel max, so it's confusing anough already. SuggestedRemedy Make all references to R_ch R_Ch, consistent. (change Table 33-1 header to R_Ch) Response Response Status C ACCEPT.		CME Consulting, Inc.	nan, George	Zimmerr		lting, Inc.	CME Consu	n, George	Zimmerma
Table 33-1, header: R_ch (the underscore denotes subscript)       33.2.7.1 is forest green (an external reference) on item 1 - elsewhen reference.         SuggestedRemedy       33.2.7.1 is forest green (an external reference)       Same 1 - elsewhen reference.         SuggestedRemedy       Make all references to R_ch R_ch, consistent. (change Table 33-1 header to R_ch)       Same goes for 33.2.9 twice, on lines 49 & 52 of page 81 (items 18 & 50 grees references. and main change references in items 1, 18 & 19 to cross references, and main change references in items 1, 18 & 19 to cross references, and main change references in items 1, 18 & 19 to cross references, and main change references in items 1, 18 & 19 to cross references, and main change references in items 1, 18 & 19 to cross references, and main change references in items 1, 18 & 19 to cross references, and main maxes (remove external tag)         SuggestedRemedy       Change references in items 1, 18 & 19 to cross references, and main change references in items 1, 18 & 19 to cross references, and main change references in items 1, 18 & 19 to cross references, and main itex (remove external tag)         SuggestedRemedy       Cassification.       Cassification outcomes on type 3 and type 4 PSEs, and 32 is Response Status C         ACCEPT.       EZ       Comment 32 is the table of classification."       Cassification."         Response       Response Status C       ACCEPT.       EZ         EZ       Ci 33 SC 33.4       P125 L 8         SuggestedRemedy       SuggestedRemedy       SuggestedRemedy         SuggestedRemedy       Con	Editorial	Comment Status A	nt Type E	itorial Comme			Comment Status A	Type ER	Comment
SuggestedRemedy       SuggestedRemedy         Make all references to R_ch R_ch, consistent.       Change references in items 1, 18 & 19 to cross references, and mail normal text (remove external tag)         Response       Response Status C         ACCEPT.       EZ         C/ 33       SC 33.2.6.2       P 76         L10       # 16         Zimmerman, George       CME Consulting, Inc.         Comment Type ER       Comment Status A         See Annex 33E for an overview of Multiple Event Physical Layer       Classification.         classification.       SuggestedRemedy         SuggestedRemedy       SuggestedRemedy         SuggestedRemedy       SuggestedRemedy         SuggestedRemedy       SuggestedRemedy         SuggestedRemedy       SuggestedRemedy         SuggestedRemedy       SuggestedRemedy         EZ       Cl 33       SC 33.4.4         P125       L8         Zimmerman, George       CME Consulting, Inc.         Comment Type TR       Comment Status A         "VPort_PSE-       2P' split across lines         SuggestedRemedy       SuggestedRemedy         Bole for See Annex 33E       Cassification."         Response       Response Status C         ACCEPT.       EZ	nere it is a cross 8 & 19 in the table)	(an external reference) on item 1 - elsewh a live cross reference. wice, on lines 49 & 52 of page 81 (items 18	.7.1 is forest green ( rence. Needs to be ne goes for 33.2.9 tw	33.2 refe ng Sarr	alized. The max, so it's con	s subscript) n , with the C cap ich is the channe	ch (the underscore denotes s everywhere else as R_Ch s very close to R_Chan, wh	33-1, header: R_cl arameter appears iclature for this is v h already.	Table This p nomer enoug
Make all references to R_ch R_Ch, consistent. (change Table 33-1 header to R_Ch)       Change references in items 1.18 & 19 to cross references, and mal normal text (remove external tag)         Response       Response Status C         ACCEPT.       EZ         C/ 33       SC 33.2.6.2       P76       L 10       # 16         Zimmerman, George       CME Consulting, Inc.       EZ         Comment Type       ER       Comment Status A       Editorial         "See Annex 33D for an overview of Multiple-Event physical Layer classification."       Comment Status A       Editorial         SuggestedRemedy       Delete "See Annex 33D.: classification."       Response       Response Status C         ACCEPT.       EZ       Cl 33       SC 33.4.4       P125       L 8         SuggestedRemedy       Delete "See Annex 33E classification."       EZ       Cl 33       SC 33.4.4       P125       L 8         EZ       Cl 33       SC 33.4.4       P125       L 8       Zimmerman, George       CME Consulting, Inc.         SuggestedRemedy       Delete "See Annex 33E classification."       Sc 33.4.4       P125       L 8         EZ       Cl 33       SC 33.4.4       P125       L 8         Comment Type       TR       Comment Status A       "For 10GBASE-T systems, TBD mV peak, for			edRemedy	Suggest				Remedy	Suggested
Response       Response Status C         ACCEPT.       EZ         Cl 33       SC 33.2.6.2       P76       L 10       # 16         Zimmerman, George       CME Consulting, Inc.       EZ       Cl 33       SC 33.2.7.2       P 83       L 24         Zimmerman, George       CME Consulting, Inc.       Editorial       "VPort, PSE- classification."       Comment Status A       Editorial         "see Annex 33E for an overview of Multiple-Event Physical Layer classification."       See Annex 33D for an overview of Multiple-Event Physical Layer classification."       Comment Type       ER       Comment Status A       "VPort, PSE- 2P" split across lines         SuggestedRemedy Delete "See Annex 33E classification."       Response       Response Status C       ACCEPT.         Ez       Cl 33       SC 33.4.4       P125       L 8         Zimmerman, George       CME Consulting, Inc.       Comment Status A       "For 10GBASE-T systems, TBD mV peak, for 1 MHz to 500 MHz."         SuggestedRemedy Delete "See Annex 33E classification."       C       ACCEPT.       EZ         Ez       Cl 33       SC 33.4.4       P125       L 8         Zimmerman, George       CME Consulting, Inc.       Comment Status A       "For 10GBASE-T systems, TBD mV peak, for 1 MHz to 500 MHz."         Ez       Cl 33       SC 33.4.4<	nake same color as	ems 1, 18 & 19 to cross references, and m ternal tag)	nge references in ite nal text (remove exte	Cha norr			R_ch R_Ch, consistent. ader to R_Ch)	all references to R	Make (chang
EZ       Cl 33       SC 33.2.6.2       P76       L 10       # 16         Zimmerman, George       CME Consulting, Inc.       CME Consulting, Inc.       Cd 33       SC 33.2.7.2       P83       L 24         Comment Type       ER       Comment Status A       Editorial       See Annex 33E for an overview of Multiple Event Physical Layer classification.*       Editorial       See Annex 33E for an overview of Multiple Event Physical Layer classification outcomes on type 3 and type 4 PSEs, and 33E is Rload_max and Rload_min       SuggestedRemedy       CME Consulting, Inc.         EZ       Cl 33       SC 33.4.4       P125       L 8         Zimmerman, George       CME Consulting, Inc.       Comment Type       TR       Comment Status A         FZ       Cl 33       SC 33.4.4       P125       L 8         Zimmerman, George       CME Consulting, Inc.       Comment Type       TR       Comment Type       Comment Type       L 8         EZ       Cl 33       SC 33.4.4       P125       L 8       Z       L 8       Z       L 8       Z       See		Response Status C	se CEPT.	Respons ACC			Response Status C	PT.	Response ACCE
C/ 33       SC 33.2.6.2       P76       L 10       # 16       C/ 33       SC 33.2.7.2       P83       L 24         Zimmerman, George       CME Consulting, Inc.       C/ 33       SC 33.2.7.2       P83       L 24         Zimmerman, George       CME Consulting, Inc.       C/ 33       SC 33.2.7.2       P83       L 24         Zimmerman, George       CME Consulting, Inc.       C// 33       SC 33.2.7.2       P83       L 24         Zimmerman, George       CME Consulting, Inc.       C// 33       SC 33.2.7.2       P83       L 24         Zimmerman, George       CME Consulting, Inc.       C// 33       SC 33.2.7.2       P83       L 24         Zimmerman, George       CME Consulting, Inc.       C// 20       C// 20       Suppose       C// 20       Suppose       C// 20       Suppose       Suppose       Suppose       L 24         Suggested/Remedy       Delete "See Annex 33E classification."       Response       Response Status       C       ACCEPT.       EZ       C// 33       SC 33.4.4       P125       L 8         Zimmerman, George       CME Consulting, Inc.       Comment Type       TR       Comment Status       A         Ez       C// 33       SC 33.4.4       P125       L 8       Z       Z <td></td> <td></td> <td></td> <td>EZ</td> <td></td> <td></td> <td></td> <td></td> <td>EZ</td>				EZ					EZ
Comment Type       ER       Comment Status       A         "See Annex 33E for an overview of Multiple Event Physical Layer classification."       Comment Type       ER       Comment Status       A         "See Annex 33D for an overview of Multiple Event Physical Layer classification."       33D is the table of classification outcomes on type 3 and type 4 PSEs, and 33E is Rload_max and Rload_min       SuggestedRemedy       supress hyphenation breaking this up so it stays on one line.         SuggestedRemedy       Delete "See Annex 33E classification."       C       ACCEPT.       EZ       C/ 33       SC 33.4.4       P 125       L 8         Zimmerman, George       CME Consulting, Inc.       Comment Type       TR       Comment Status       A         "For 10GBASE-T systems, TBD mV peak, for 1 MHz to 500 MHz."       Need to fill in a number. Initial analysis of 35-40dB common mode to conversion magnetics suggests that 50mVpb (SmDVp) (SmDVp)       SuggestedRemedy         SuggestedRemedy       SuggestedRemedy       SuggestedRemedy       SuggestedRemedy         EZ       C/ 33       SC 33.4.4       P 125       L 8         Zimmerman, George       CME Consulting, Inc.       Comment Type       TR       Comment Status       A         "For 10GBASE-T systems, TBD mV peak, for 1 MHz to 500 MHz."       Need to fill in a number. Initial analysis of 35-40dB common mode to conversion magnetics suggests that 50mVpp (stame as 100 and t	# 18	<i>P</i> 83 <i>L</i> 24 CME Consulting, Inc.	SC <b>33.2.7.2</b> nan, George	C/ 33 Zimmerr	# 16	L <b>10</b> Iting, Inc.	Р <b>76</b> СМЕ Consu	SC <b>33.2.6.2</b> n, George	Cl 33 Zimmerma
Rload_max and Rload_min       Response       Response Status C         SuggestedRemedy       ACCEPT.         ACCEPT.       EZ         EZ       CI 33 SC 33.4.4       P 125 L 8         EZ       CME Consulting, Inc.         Comment Type       TR         Comment Type       TR         Comment Type       TR         Conversion magnetics suggests that 50m Vpp (same as 100 and 100 about right. Phy developers are asking to mark with a TBD for now.         SuggestedRemedy       Change "TBD mV peak" to "50 mVpp (TBD)"	Editorial	Comment Status <b>A</b> eaking this up so it stays on one line.	nt Type ER ort_PSE- split across lines edRemedy ess hyphenation bre	itorial Commen "VP 2P" Suggest supp	sical layer Es, and 33E is	Physical Layer Aultiple-Event phy 3 and type 4 PS	Comment Status A overview of Multiple Event ex 33D for an overview of M sification outcomes on type	Type ER Annex 33E for an o ication. See Annex ication." the table of classi	Comment "See A classif classif 33D is
SuggestedRemedy       ACCEPT.         Delete "See Annex 33E classification."       EZ         Response       Response Status       C         ACCEPT.       C/ 33       SC 33.4.4       P 125       L 8         EZ       Zimmerman, George       CME Consulting, Inc.         EZ       Comment Type       TR       Comment Status       A         "For 10GBASE-T systems, TBD mV peak, for 1 MHz to 500 MHz."       Need to fill in a number. Initial analysis of 35-40dB common mode to conversion magnetics suggests that 50mVpp (same as 100 and 100 about right. Phy developers are asking to mark with a TBD for now.         SuggestedRemedy       change "TBD mV peak" to "50 mVpp (TBD)"		Response Status C	se	Respons			_min	_max and Rload_n	Rload
Delete "See Annex 33E classification."         Response       Response Status C         ACCEPT.       Cl 33 SC 33.4.4       P 125 L 8         EZ       Zimmerman, George       CME Consulting, Inc.         Comment Type       TR       Comment Status A         "For 10GBASE-T systems, TBD mV peak, for 1 MHz to 500 MHz."       Need to fill in a number. Initial analysis of 35-40dB common mode to conversion magnetics suggests that 50mVpp (same as 100 and 100 about right. Phy developers are asking to mark with a TBD for now.         SuggestedRemedy       change "TBD mV peak" to "50 mVpp (TBD)"			EPT.	ACC				Remedy	Suggested
Response       Response Status       C         ACCEPT.       C/ 33       SC 33.4.4       P 125       L 8         EZ       Zimmerman, George       CME Consulting, Inc.         Comment Type       TR       Comment Status       A         "For 10GBASE-T systems, TBD mV peak, for 1 MHz to 500 MHz."       Need to fill in a number. Initial analysis of 35-40dB common mode t conversion magnetics suggests that 50mVpp (same as 100 and 100 about right. Phy developers are asking to mark with a TBD for now.         SuggestedRemedy change "TBD mV peak" to "50 mVpp (TBD)"				EZ			classification."	"See Annex 33E	Delete
EZ       Zimmerman, George       CME Consulting, Inc.         Comment Type       TR       Comment Status       A         "For 10GBASE-T systems, TBD mV peak, for 1 MHz to 500 MHz."       Need to fill in a number. Initial analysis of 35-40dB common mode t conversion magnetics suggests that 50mVpp (same as 100 and 100 about right. Phy developers are asking to mark with a TBD for now.         SuggestedRemedy       change "TBD mV peak" to "50 mVpp (TBD)"	# 19	P 125 L 8	SC 33.4.4	CI 33			Response Status C	PT.	Response ACCE
Comment Type TR Comment Status A "For 10GBASE-T systems, TBD mV peak, for 1 MHz to 500 MHz." Need to fill in a number. Initial analysis of 35-40dB common mode t conversion magnetics suggests that 50mVpp (same as 100 and 100 about right. Phy developers are asking to mark with a TBD for now. SuggestedRemedy change "TBD mV peak" to "50 mVpp (TBD)"		CME Consulting, Inc.	nan, George	Zimmerr					EZ
change "TBD mV peak" to "50 mVpp (TBD)"	AES " de to differential mode 1000BASE-T) would be ow.	Comment Status <b>A</b> ms, TBD mV peak, for 1 MHz to 500 MHz. Initial analysis of 35-40dB common mod suggests that 50mVpp (same as 100 and 1 opers are asking to mark with a TBD for no	nt Type TR 10GBASE-T system d to fill in a number. version magnetics su ut right. Phy develop edRemedy	Commen "For Nee conv abor Suggest					
			ige "IBD mV peak"	chai					
ACCEPT.		Response Status C	SEPT.	ACC					

CI 33	SC 33.1	P 27	L 14	# 20	C/ 33	SC 33.3.7.3	P 113	L <b>4</b>	# 21
Jones, Chao	ł	Cisco			Jones, Chad	I	Cisco		

Comment Type E Comment Status R

"This clause uses several terms defined in clause 1.4." I took an action item in Bonita Springs to enumerate these new terms.

#### SuggestedRemedy

add: " - See terms: 1-Event class signature, 1-Event classification, 1000BASE-T, 10BASE-T/100BASE-TX, 2-Event class signature, 2-Event classification, Dual-signature PD, Endpoint PSE, IPort, Link Section, Midpsan, Midpsan PSE, Midspan PSE, Midspan PSE, pairset, Power Interface (PI), Power Sourcing Equipment (PSE), Powered Device (PD), PSE Group, Single-signature PD, TP-PMD, Twisted Pair Medium Dependent Interface (TP MDI), Type 1 PD, Type 1 PSE, Type 2 PD, Type 2 PSE, Type 3 PD, Type 3 PSE, Type 4 PD, Type 4 PSE, VPD, VPSE.

Response Status C

Response
----------

REJECT.

Comment Type TR Comment Status A

This is a reminder of MR1277 that has been assigned to this TF for closure. Changes were previously made to close the MR and then subsequesntly further changes were made that may backed out the fix. This comment is being filed so that the TF can review the MR and ensure it is being properly addressed and to provide an Editor's Note warning of any future changes to the text.

#### MR 1277: "RATIONALE FOR REVISION:

PDs in the field turn on their DC-DC load during inrush. This leads to PD cap not charging up fully (even if PD cap is <180uf PSE is following inrush rules from Section 33.2.7.5). This may lead to operational problems after inrush. There is a Voff requirement in PD table 33-18 to ensure power supply remains turned off for V<30V, but customers seem to read this as applicable only "after power on" not during "power on" - hence ether turn on their DC-DC during inrush causing problems.

#### PROPOSED REVISION TEXT:

Request the following text be added as note to section 33.4.1

Add the following to section 33.3.7.3

"PDs shall not draw more than the maximum current allowed by a PSE during inrush as outlined in section 33.2.7.5" Change 2nd paragraph of Section 33.3.7.1 as follows (change shown in \_underline\_) "The PD shall \_not\_ turn on until a voltage greater than Voff and less than or equal to Von""

#### SuggestedRemedy

Restore the text as it stood after D0p4. Also, add an Editor's Note to the end ot the paragraph to be removed before publishing, "Editor's Note: this paragraph has changed as a result of MR1277. Do not change this paragraph without consulting the request of MR1277."

#### History:

D0p1:<sup>"</sup>Inrush current is drawn during the startup period beginning with the application of input voltage at the PI

compliant with VPort\_PD requirements as defined in Table 33–17, and ending when CPort is charged to 99 % 13 of its final value. This period should be less than TInrush min per Table 33–10."

D0p4: "Inrush current per pair-set is drawn beginning with the application of input voltage at the pair-set compliant with Vport\_PD-2P requirements as defined in Table 33–18, and ending before TInrush-2P min per Table 33–11. After TInrush-2P min, the PD shall not exceed its per pair-set current threshold corresponding to its class level."

D1p3:"Inrush current is drawn during the startup period beginning with the application of input voltage at the PI compliant with Vport\_PD-2P requirements as defined in Table 33–16a, and ending when CPort has reached a steady state and is charged to 99% of its final value. This period shall be less than TInrush-2P min per Table 33–11. After TInrush-2P min, Class 6 or Class 8 PDs shall meet Pclass at the PSE PI; all other PDs shall meet Pclass\_PD as specified in Table 33-18."

PD Inrush

Response	Response Statu	s C			01.00	00.00.7		0.50		<i>u</i> [
ACCEPT IN PRI	NCIPLE.	-			C/ 33	SC <b>33.2.4</b>	6	P 53	L <b>32</b>	# 24
Remove the sen Class 6 or Class Pclass_PD as sp Remove the sen	tence on line 8 (last sent 8 PDs shall meet Pclass pecified in Table 33-18." tence on line 13 (first ser	ence of first p at the PSE	oaragraph): "A PI; all other PI ond paragraph	fter Tinrush-2P min, Ds shall meet n): "Type 2, Type 3 and	Comment There "Wher native	<i>Type</i> <b>TR</b> are missing p a PSE powe type (TypePS	Comm arameter in t is a PD of lo E), the PSE	the list of the followin wer Type (TypePD) shall meet the PI el	ng text: than its own ectrical requiren	PSE SD
Type 4 PDs with to power-on sha Add these sente	pse_power_leveltype sta ll behave like a Type 1 Pl nces to the end of the firs	ite variable s o for at least st paragraph	et to 2, 3 and Tdelay-2P mir (at line 8), "All	PDs shall consume a	(Typel 33-11) TypeF The m	<sup>2</sup> D), except fo , for which the 2D <= applied issing parame	FICon, ILIM- PSE shall s Type <= Typ ters is: Icon-	2P, Ilnrush, Ilnrush select to meet the re ePSE." -2P_unb,	2P, TLIM-2P, a quirements of a	nd PType (see Table ny Type such that,
maximum of Cla	ss 3 power for at least To	lelay-2P min	This allows the	ne PSE to properly	Suggested	Remedy				
Add: "Editor's N this paragraph w CI 33 SC 33.	." lote: this paragraph has c vithout consulting the requ 8.3.5 F	hanged as a lest of MR12	result of MR1: 77." below this <i>L</i> 18	277. Do not change s change # 22	Chang "Wher native (Typel PType Type s	e text to: a PSE powe type (TypePS PD), except fo (see Table 3 such that, Typ	s a PD of lo E), the PSE r ICon, Icon- 3-11), for wh ∋PD <= appl	wer Type (TypePD) shall meet the PI el 2P_unb, ILIM-2P, Ili ich the PSE shall se ied Type <= TypePS	than its own ectrical requiren nrush, IInrush-2 lect to meet the SE."	nents of the PD Type P, TLIM-2P, and e requirements of any
Maguire, Valerie	Sie	mon			Response		Respor	nse Status C		
Comment Type <b>T</b>	Comment Statu	is A		Cabling	ACCE	PT IN PRINC	PLE.			
Not sure if this is 568-C.2	s in scope, but Category 5	cord require	ements do not	reside in ANSI/TIA-	OBE t	oy 173				
SuggestedRemedy					C/ 33	SC 33.2.7		P 80	L 15	# 25
Replace "ANSI/1	۲IA-568-C.2" with "ANSI/	TIA/EIA-568-	A:1995"		Darshan, Y	/air		Microsemi		
Response	Response Statu	s C			Comment	Type <b>TR</b>	Comm	nent Status A		Pres: Darshan1
ACCEPT.					Table	33-11 item 7, ng changes m	Additional In ade for D1.2	formation K_lcut va	lues need to be	updated due to the
Cl 33 SC 33. Maguire, Valerie	. <b>4.9.1.4</b> F Sie	9 <b>133</b> mon	L 16	# 23	1. Incr In add 2. Incr	easing PSE V ition, the follov	diff to 10mV ving change	instead of 2mV. s we made for Type	3 system:	crease margins
Comment Type T	Comment Statu	is A		Cabling	3. Typ	e 4 systems s	tayed total 6	OmV vdiff:		crease margins.
Not sure if this is 568-C.2	s in scope, but Category 5	cord require	ements do not	reside in ANSI/TIA-	Suggested	Remedy	item 7 K la		an 01 1015 ndf	- nono 1
SuggestedRemedy					Opdat				an_01_1015.pdi	page 4.
Replace "ANSI/1	٦IA-568-C.2" with "ANSI/	TIA/EIA-568-	A:1995"		Response		Respor	nse Status C		
Response	Response Statu	s C			ACCE		PLE.			
ACCEPT.					Updat	e Table 33-11	item 7, K_Ic	ut values per darsha	an_01_1015_Re	ev001.pdf page 4.

C/ 33 SC 33.1.4 Darshan, Yair	P <b>30</b> Microsemi	L <b>46</b>	# 26		CI <b>33</b> S Darshan, Yair	C 33.2.7.5	P <b>85</b> Microsem	L <b>52</b>	# 28
Comment Type E	Comment Status <b>A</b> Editor Note regarding the effe	ct of extended pow	ver	Editorial	Comment Type	e ER	Comment Status D		PSE Inrush
SuggestedRemedy Remove the Editor Note					A Type 2 F requires th Physical La	PSE that uses e 1 ms settlir ayer classific	s 1-EventSingle-Event Ph ng time, shall power up a ation.	nysical Layer clas cClass 4 PD as	ssification, and if it used 2Multiple-Event
Response ACCEPT IN PRINCIPLE	Response Status <b>C</b>				It is not cle	ar why this te	ext should be part of the l	POWER_UP and	d not part of classification.
OBE by 229.					SuggestedRen Move this t	nedy text to classif	iaction section or clarify	why it is inserted	here.
C/ 33 SC 33.4.9 Darshan, Yair	P <b>129</b> Microsemi	L 1	# 27		Proposed Resp REJECT.	oonse	Response Status Z		
Comment Type <b>E</b> Type 4 was adressed. We can remove the edit	Comment Status A			Editorial	This comm	ent was WIT	THDRAWN by the comme	enter.	
SuggestedRemedy Remove the Editor Note					This was d change it.	one through Additionaly,	maintenance between A this is an inrush spec not	T and now. We of the classification s	don't have a right to spec and belongs here.
Response ACCEPT.	Response Status C				C/ <b>33</b> S Darshan, Yair	C 33.2.4.4	P <b>46</b> Microsem	L <b>12</b>	# 29
F7					Comment Type	e T	Comment Status D		pres: Darshan2
					The text "T The legacy In order to operate 2P	ype 3 and Ty powerup wa keep interop it is better to	ype 4 PSEs shall use this as canceled for Type 3 ar erability between Type 3 o delete the use of legacy	s value." nd 4. systems that op / powerup to Typ	erate 4P and those who e 4 only.
					SuggestedRen Change fro "Type 3 an To: "Type 4PS	<i>nedy</i> om: d Type 4 PS Es shall use	Es shall use this value." this value."		
					Proposed Res REJECT.	oonse	Response Status Z		
					This comm	ient was WIT	HDRAWN by the comme	enter.	
					l don't follo	w the logic.			
					TFTD.				

Comment ID 29

Cl <b>33</b> Darshan, `	SC <b>33.2.7</b> Yair	P <b>79</b> Microsemi	L 37	# 30	C/ <b>33</b> Darshan, `	SC <b>33.2.7.4</b> Yair	.1 F Mic	<b>°85</b> rosemi	L <b>2</b>	# 32
Comment Table for D1 1. Incr In add 2. Incr 3. Typ	Type <b>T</b> 33-11 item 4a, lo .2: reasing PSE Vdif lition, the followin reasing system V the 4 systems stay	Comment Status <b>A</b> con-2P_unb need to be updat f to 10mV instead of 2mV. g changes we made for Type diff for Type 3 to 70mV instea red total 60mV vdiff:	ed due to the fo 3 system: ad of 60mV to ir	Pres: Darshan1 Ilowing changes made ncrease margins.	Comment Updat 1. Incr In add 2. Incr 3. Typ Suggested	Type <b>T</b> ing Equation 33 reasing PSE Vd lition, the followi reasing system v the 4 systems state dRemedy	Comment Statu -4b (PSE PI spec.) iff to 10mV instead of ng changes we mad Vdiff for Type 3 to 7 ayed total 60mV vdif	us <b>A</b> due to the of 2mV. de for Type 0mV inste f:	following chang e 3 system: ad of 60mV to ir	Pres: Darshan1 ges made for D1.2: ncrease margins.
Suggested Updat Response ACCE	dRemedy e Table 33-11 ite PT IN PRINCIPL	m 4a per darshan_01_1015. <sub> </sub> <i>Response Status</i> <b>C</b> E.	pdf page 3.		Updat Response ACCE	e Equation 33-4	b per darshan_01_′ Response Statu PLE.	1015.pdf p s <b>C</b>	bage 6.	
OBE t	by comment 46.				Updat C/ 33	e Equation 33-4 SC <b>33.2.7.4</b>	b per darshan_01_ F	1015_Rev ? <b>84</b>	001.pdf page 6. <i>L</i> <b>25</b>	# 33
Cl 33       SC 33.2.7       P 80       L 28       # 31         Darshan, Yair       Microsemi       Microsemi         Comment Type       T       Comment Status       A       Pres: Darshan1         Table 33-11 item 9, ILIM-2P need to be updated due to the following changes made for D1.2:       1. Increasing PSE Vdiff to 10mV instead of 2mV.       In addition, the following changes we made for Type 3 system:       2. Increasing system Vdiff for Type 3 to 70mV instead of 60mV to increase margins.         3. Type 4 systems stayed total 60mV vdiff:       SuggestedRemedy       Update Table 33-11 item 7 per darshan_01_1015.pdf page 5.					Darshan, <sup>v</sup> Comment D1.2: 1. Inci In add 2. Inci 3. Typ Suggested Updat Response	Yair <i>Type</i> <b>T</b> ing Equation 33 reasing PSE Vdi lition, the followi reasing system V be 4 systems sta <i>dRemedy</i> e Equation 33-4	Mic Comment Statu -4a (The Kipeak equ iff to 10mV instead of ng changes we mac Vdiff for Type 3 to 7 ayed total 60mV vdif a per darshan_01_7 Response Statu	rosemi /s A uation) due of 2mV. le for Type 0mV inste f: 1015.pdf p s <b>C</b>	e to the following e 3 system: ad of 60mV to ir page 7.	Pres: Darshan1 g changes made for ncrease margins.
Response ACCE Updat	PT IN PRINCIPL e Table 33-11 ite	Response Status <b>C</b> E. m 7 per darshan_01_1015_F	Rev001.pdf pag	e 5.	ACCE Updat	PT IN PRINCIP e Equation 33-4	PLE. a per darshan_01_′	1015_Rev	001.pdf page 7.	

C/ 33	SC 33A.5	P 172	L 10	# 34	C/ 33	SC 33.2.7	P 81	L <b>25</b>	# 37
Darshan,	Yair	Microsemi			Darshan,	Yair	Microsemi		
Comment Updat 1. Inc In ado 2. Inc 3. Typ Suggester	Type <b>T</b> ting Annex 33A.5 reasing PSE Vdi dition, the followir reasing system \ be 4 systems sta dRemedy	Comment Status A is due to the following changes r ff to 10mV instead of 2mV. Ing changes we made for Type is votiff for Type 3 to 70mV instead yed total 60mV vdiff:	nade for D1.2 3 system: 1 of 60mV to i	Pres: Darshan1 : ncrease margins.	Comment Table Suggeste Chan Response	<i>Type</i> <b>T</b> 33-11 item 15, <i>dRemedy</i> ge "Turn off tim	Comment Status A Turn off time need to be per pa e" to "Turn off time per pairset" Response Status C	airset.	PSE Power
Updat	te Annex 33A.5 p	er darshan_01_1015.pdf page	9.		ACCL	-F I.			
Response ACCE	e PT IN PRINCIPI	Response Status <b>C</b> _E.			C/ <b>33</b> Darshan,	SC <b>33.2.7</b> Yair	P <b>82</b> Microsemi	L 19	# 38
Updat	te Annex 33A.5 p	per darshan_01_1015_Rev001.	pdf page 9.		<i>Comment</i> Table	<i>Type</i> <b>T</b> 33-11 item 23,	Comment Status <b>A</b> Detection Timing, additional in	formation:	PSE Detection
Update Annex 33A.5 per darshan_01_1015_Rev001.pdf page 9. Cl 33 SC Annex 33B P 173 L 43 # 35 Darshan, Yair Microsemi Comment Type T Comment Status A Pres: Darshan1 Updating Annex 33B Table 33B-1 due to the following changes made for D1.2: 1. Increasing PSE Vdiff to 10mV instead of 2mV. In addition, the following changes we made for Type 3 system: 2. Increasing system Vdiff for Type 3 to 70mV instead of 60mV to increase margins. 3. Type 4 systems stayed total 60mV vdiff: SuggestedRemedy Update Table 33B-1 per darshan_01_1015.pdf page 10. Response Response Status C ACCEPT IN PRINCIPLE.					The ti treat of Suggeste Chan To : " Response ACCE Chan To : "	me to complete completion of de <i>dRemedy</i> ge from: "Time The per pairset e EPT IN PRINCII ge from: "Time Time to comple	<ul> <li>detection of a PD is per a pair</li> <li>detection for SS and DS PDs.</li> <li>to complete detection of a PD"</li> <li>time to complete detection of a</li> <li><i>Response Status</i> C</li> <li>PLE.</li> <li>to complete detection of a PD"</li> <li>te detection on a pairset."</li> </ul>	set or supply a i	reference for how to
<u> </u>	SC 22 2 7	D 01	/ 24	# 20					
Darshan,	Yair	P 81 Microsemi	L <b>Z</b> 1	# 30					
<i>Comment</i> Table	<i>Type</i> <b>T</b> 33-11 item 14, 1	Comment Status A	pairset.	PSE Power					
Suggeste Chan	<i>dRemedy</i> ge "Turn on rise :	time" to "Turn on rise time per	pairset".						
Response ACCE	e EPT.	Response Status C							

C/ <b>33</b> SC <b>33.2.7</b> Darshan, Yair	P <b>82</b> Microsemi	L <b>23</b>	# 39	C/ <b>33</b> Darshan, `	SC <b>33.3.</b> Yair	7.10.1	P <b>119</b> Microsemi	L 17	# 41
Comment Type T	Comment Status A		PSE Power	Comment	Туре Т	Com	ment Status A		Editorial
Table 33-11 item 24,	Error delay Timing, additional i	nformation:		The ti	tle of figure 3	3-18a is inco	rrect.		
	isel.			Suggestee	dRemedy				
Change from:				Chane	ge from "Figu	ire 33–18a–	PI fault tolerance test	circuit"	
"Delay before PSE m error condition."	ay attempt subsequent poweri	ng after power	removal because of	Response		Respo	onse Status <b>C</b>		
To: "The per pairset delay	y before PSE may attempt sub	sequent power	ing after power removal	ACCE	PT.				
because of error cond	dition."			EZ					
Response	Response Status C			CI 33	SC 33.4.	4	P 125	L 8	# 42
ACCEPT IN PRINCIP	LE.			Darshan, `	Yair		Microsemi		
Change from:				Comment	Туре Т	Com	ment Status A		AES
"Delay before PSE m error condition."	ay attempt subsequent powering	ng after power	removal because of	Repla 50 m\	ce TBD with: / peak from ?	MHz to 100N	MHz and 20 mV peak	from > 1MHz a	and up to 500MHz.
"Delay before PSE m	ay attempt subsequent poweri	ng of a pairset	after power removal	Suggestee	dRemedy				
from that pairset beca	ause of an error condition."			Repla	ce TBD with:			(	
C/ 33 SC 33.2.7	P 82	L 33	# 40	50 m	/ peak from '	IMHZ to 100M	VIHZ and 20 mV peak	trom > 100IVIF	iz and up to 500MHz.
Darshan, Yair	Microsemi			Response	יאוסס ואו דס	Respo	onse Status C		
Comment Type T	Comment Status A		Editorial	ACCE		JIFLE.			
Editor Note #1 can be	e removed.			OBE b	oy 19.				
SuggestedRemedy Remove "1. PSE Vdif	ff is still under investigation. It r	nay be change	ed."						
Response ACCEPT.	Response Status C								
EZ									

CI 33	SC 33	3.2.7	P 79	L 49	# 43	C/ 33	SC	33.2.7	P 80		L <b>7</b>	# 45
Darshan, Ya	air		Microsemi			Darshan, Y	′air		Microser	ni		
Comment T Table 3 Only PS We sho that PD Rationa a) It cou b) Syste See dar	ype 3-11 iter SE Type Juld not f type 1 a lle: Juld be a em vend rshan_02	TR n 5. 1 and 2 sh force Type and 2 need feature and ors cannot 2_1015.pdf	Comment Status R nould support Inrush=0.4A 3 and 4 PSEs to meet thi to meet much higher cur d not mandatory requirem be liable for poorly desig f for details.	a min to Type 1 s requirement a rents than 0.9A ents. ned PDs or non	Pres: Darshan2 and 2 PDs. as well due to the fact 	Comment Table 3 PSE T Compl System See da Suggested In Tab	<i>Type</i> 33-11 if ypes 3 iant PE n vende arshan_ <i>Remec</i> le 33-1	TR tem 5a. and 4 car Ds should s ors cannot _02_1015. dy 1 item 5a:	Comment Status R a support all PDs and no stand more than 0.4A p t be liable for poorly des pdf for details.	ot only Ty er pair se igned PE ation:	rpe 3 and 4 et or total 0.9 Ds or non-co	Pres: Darshan2 PDs. A. mpliant PDs.
SuggestedF	Remedy					Delete	For I	ype 3 and	4 PDS or replace with	For all F	'DS".	
In Table	ə 33-11 i	tem 5, rest	ore PSE Type as 1,2 and	delete "all"		Response	<b>`</b> T		Response Status C			
Response		F	Response Status C			KEJE	.ار					
REJEC <sup>®</sup>	т.					See co	ommen	t 43				
Vote:						Cl <b>33</b> Darshan, Y	SC ′air	33.2.7	P 79 Microser	ni	L 37	# 46
Accept:	3					Comment	Type	тр	Comment Status			Pros: Darshan1
Reject:	10					Table :	33-11 i	tem 4a.				TTes. Darshann
Abstain	: 7					Icon-2 minmu	P_unb Im and	is equal to worst cas	e Rch in terms of E2EP	worst ca 2PRub).	ise condition	ns (at Vport_PSE
Cl <b>33</b> Darshan, Ya Comment T	SC 33 air ype	8.2.6.2 TR	P <b>77</b> Microsemi Comment Status A	L 51	# 44 PSE Class	I heref is done min in E2EP2 See de	ore for e currei similar 2PRunt etails in	increasing ntly or as a concept u o. darshan_	g design flexibility, we can a function of Klcut*Pclaa ised in 802.3at with the _01_1015.pdf page 16.	an specity ss/Vport_ addition	y Icon-2P_u PSE-2P wh of Kicut fact	nb as a fixed value as it ich is equal to Icut-2P or to account for
Table 3 Increase	3-10 iter e it to 20	n 13 TCLE )msec.	3 max value needs more	e margin.		Suggested	Remed	dy one for rom	ody in darshan 01 10		1 odf page	16
SuggestedF Increase Response ACCEP	Remedy e TCLE 'T.	3 max valu F	ie to 20msec. Response Status C			Response ACCE	PT IN F	PRINCIPL 1 on page	Response Status C E. 17 of darshan_01_101	5_Rev00	1.pdf.	10.
Add Edi	itor's No	te below ta	ble 33-10. "Need to perfe	orm thermal and	alysis on new							

classification timings/events on both existing and new PDs."

<i>Cl <b>33</b> Darshan, ነ</i>	SC Yair	33.2.7.5	r	P <b>85</b> Vicrosemi	L <b>40</b>	;	# 47		<i>Cl</i> <b>33</b> Darshan, Ya	SC <b>3</b> air	3.2.7.4		P <b>83</b> Microsemi	L <b>46</b>	# 48
Comment We ne signatu at any Suggestea Add th A Type POWE after th	Type eed to ure Pl time, dReme ne follo e 3 or ER_UI he exp	TR allow A Type D and is in th including aft edy owing text aft Type 4 PSE P state may to piration of Tir	Comment St = 3 or Type 4 F = POWER_UI er the expiration er line 40 in pa that is connect transition betw. rransition betw. rrush-2P.	PSE that is PSE that is P state to t on of Tinru age 85: cted to a Ci veen 2-pair	connected to a ransition betwee sh-2P. ass 0-4 single-s and 4-pair pow	Class 0-4 en 2-pair a signature P er at any ti	Pres: Dw single- nd 4-pair p PD and is ir me, includi	velley1 ower n the ng	Comment 7 See da The Ico Rationa DS PDs There is differen Suggested/ Change	<i>Type</i> rshan_0 on-TBD ale: s can ha s no wa nt class s Remedy e from:	TR D3_1015.p need to be ave unbala y to know signature.	Comment S odf for details. e replaced wi ance too in th if it is single In this case,	Status <b>A</b> th Icon-2P_unb. le positive pairs, load or dual load no need to mee	in the negative d unless the du t Icon-2P_unb	Pres: Darshan3 e pairs, or both. al load present
Response ACCE	PT IN	PRINCIPLE	Response Sta	atus C					"PSES Table 3 as spec	connect 33-11. P cified in	ted to a sir SEs conne Table 33-	ngle-signatur ected to a du 11."	e PD shall meet ial-signature PD	Icon and Icon- shall meet Ico	2P_unb as specified in n-TBD on each pairset
This fe	eature	is allowed b	y the current c	Iraft.					"PSEs	connect	ted to a sir	ngle-signatur	e PD shall meet	Icon and Icon-	2P_unb as specified in
No Ch	anges	s to the draft	result from ac	cepting this	s comment.				Table 3 PSEs of Icon-2F PSEs of are not PSEs of	3-11. connect P_unb of connecte require connecte	ted to a du n each pai ed to a dua d to meet ed to an is	ial-signature irset as spec al-signature f Icon-2P_unb solated dual-s	PD with the sam ified in Table 33 PD with a differe o. signature PD are	ne class over e -11. nt class signation not required to	ach pairset shall meet ure over each pairset o meet Icon-2P_unb."
									Response			Response S	Status C		
									ACCEF	PT IN PF	RINCIPLE				
									OBE by	/ 175.					

CI 33	SC 33.2.7.5	P 85	L <b>51</b>	# 49	CI 33	SC 33.2.7	7.7	P 87	L <b>12</b>	# 51
Darshan,	Yair	Microsemi			Darshan, `	'air		Microsemi		
Comment The te "For T to allo Is cor	<i>Type</i> <b>TR</b> ext: Type 1 PSE, meas w startup transien rect for all PSE typ	Comment Status D surement of minimum IInrush its." bes and not only Type 1 PSE	2P requireme	PSE Inrush	Comment The te "When power either	<i>Type</i> <b>TR</b> xt in lines 12- connected to from both pa pairset."	Comm -14: o a single sign irsets before	nent Status <b>R</b> nature PD, a Type the current exceed	3 or Type 4 PSI s the "PSE upp	PSE Power E should (TBD) remove erbound template" on
Suggester Chang "For T to allo To: "For a ms to Proposed REJE This c	dRemedy ge from: Type 1 PSE, meas w startup transier all PSE types, mea allow startup tran <i>Response</i> CT. comment was WIT	urement of minimum IInrush- its." asurement of minimum IInrus sients." <i>Response Status</i> <b>Z</b> "HDRAWN by the commente	2P requireme h-2P requirem	nt to be taken after 1 ms lent to be taken after 1	When 2xTLI Suggestee Remo "When power either Response REJE	PD gets to th A to remove p <i>IRemedy</i> ve the text: a connected to from both pa pairset." CT.	nis situation it power. o a single sign irsets before Respor	is already damage nature PD, a Type the current exceed nse Status <b>C</b>	ed so it is ireleva 3 or Type 4 PSI s the "PSE upp	ant if it takes TLIM or E should (TBD) remove erbound template" on
CI 33	SC 33.2.7.7	P 87	L 12	# 50	Vote:					
Darshan,	Yair	Microsemi			Accep	t: 6				
Comment	Type <b>TR</b>	Comment Status R		PSE Power	Rejec	: 10				
The te "When power either is redu The re Power "PSE 14, Fi	ext in lines 12-14: n connected to a s r from both pairsel pairset." undant. equirement is alrea r shall be removed upperbound temp gure 33–14a, and	single signature PD, a Type 3 is before the current exceeds ady covered by previous lines d from a pairset of a PSE befi late" in Figure 33– Figure 33–14b.	or Type 4 PS the "PSE upp s lines 10-12: ore the pairse	E should (TBD) remove perbound template" on t current exceeds the	Absta	n: 6				
Suggestee	dRemedy									
Remo "When power either	ove the text: n connected to a s r from both pairset pairset."	single signature PD, a Type 3 s before the current exceeds	or Type 4 PS the "PSE upp	E should (TBD) remove erbound template" on						
Response	9	Response Status C								
REJE	CT.									
See 5	1									

C/ 33	SC 33.2.7.7	P 87	L 12	# 52	C/ 33	SC 33.3.5.3	<i>P</i> 108	L 49-5	# 53
Darshan, Y	/air	Microsemi			Darshan, Y	'air	Microsemi		
Comment The te "When power either	Type <b>TR</b> xt in lines 12-14: a connected to a s from both pairset pairset."	Comment Status <b>R</b> single signature PD, a Type ts before the current exceed	3 or Type 4 PSE s the "PSE uppe	PSE Power should (TBD) remove broound template" on	Comment The fol "A PD in Tabl CLASS classifi	Type <b>TR</b> llowing text is r implementing , e 33–17a), res S_EV1. A PD in cation as defin	Comment Status A not clear: Autoclass shall remove its clasultion ulting in a classification signal mplementing Autoclass carries red in section 33.3.5.1 or 33.3.	ssification current cure of '0' for the r s out the rest of th 5.2."	<i>Autoclass</i> at TACS (as defined emainder of e Physical Layer
and th This is Suggested "When power either	en power will be is a lredy covered b <i>IRemedy</i> ve the text: a connected to a s from both pairset pairset."	removed from that pair set to by the lines 10-12 therefore I single signature PD, a Type ts before the current exceed	a or Type 4 PSE s the "PSE uppe	dundant. E should (TBD) remove rbound template" on	1. It sa 75.5ms TLCF_ for FOI CLASS So the was OI	ys that the PD sec to 87.5ms PD=75.5msec R THE WHOLI S_EV1. "remiander of K.	shall remove its classification which is identical to the Long I to 87.5msec (Table 33–17) re E periode of the class event ar CLASS_EV1" is incorrect to u	current at TACS First Class event f soulting in a class and not only for the se. If TACS WAS	(table 33-17a) = imiming fication signature of '0' remainder of < TLCF_PD than it
Response REJEC See 5 <sup>7</sup>	CT. 1	Response Status C			The te: "A PD Layer o clarrific "A PD Layer o in secti	xt: implementing a classification a cation by saying implementing classification (* ion 33.3.5.1 or	Autoclass carries out the rest s defined in section 33.3.5.1 o g: Autoclass carries out the rest *the PD class response to the 33.3.5.2."	of the Physical r 33.3.5.2." may r of the Physical 9 2nd or more clas	eed further s events**) as defined
					Suggested Group "A PD in Tabl **durat A PD in Layer of section  Note: I with cla is not s what I	Remedy to clarify the q implementing , e 33–17a), res ion** of CLAS mplementing A classification ** a 33.3.5.1 or 33 am aware of t ass 0 is less th so clear (what t could suggest	uestions of adopt the following Autoclass shall remove its clas ulting in a classification signal S_EV1). utoclass carries out the rest o (the PD class response to res 3.3.5.2." he fact that it takes time to PD an CLASS_EV1 so "remainde o do with the time when it is n to start a discussion.	y remedy: ssification current ure of '0' for the ( if the Physical it of class events) to remove class r" may be OK to u ot class 0? etc.) b	at TACS (as defined Delete "remainder" ** as defined in current so the time left use but the whole thing but this is the best
					Response ACCEI Chang "A PD 33.3.5. class e	PT IN PRINCIF e to: implementing , 1 and 33.3.5.2 event to class s	Response Status <b>C</b> PLE. Autoclass shall respond to Phy with the exception that the PI ignature 0 no earlier than TAC	ysical Layer class Shall change its S min and no late	ification as specified in current during the first er than TACS max (as

Comment ID 53

Page 15 of 71 10/15/2015 4:32:16 PM

defir	ned in Table 33–	17a). "			C/ 33 SC	33.2.7.7	P 88	L 13	# 56
CI 33	SC 33.2.7	P <b>85</b>	L 17	# 54	Darshan, Yair	00121111	Microsemi	- 10	
Darshan	n, Yair	Microsemi			Comment Type	TR	Comment Status A		Pres: Yseboodt1
Commer Adre We bala	nt Type <b>TR</b> essing the editor need to adress t incing. It will affe	Comment Status <b>D</b> note # 3 in page 82 lines 39-4 he case when PSE is using ac ct the minimum requirements f	0 by adding text tive or passive p for Icon-2P_unb,	PSE Power in page 85 after line 17. air to pair current Icut-2P and ILIM-2P	Figure 33-14 As a greed i = Icon - Ipor is Icon-2P_u	la line 13 a n last mee t-2P-Other inb.	and Figure 33-14b line 41: ting, we need to change the m . We can also add in the base	nin equation and	d replace it with Icon-2P e max value of Icon-2P
only	for the pairs we	re the current is sensed.			SuggestedReme	edy			
Suggest Add PSE whe	tedRemedy the following tex that use active the following courters	tt in page 85 line 17: e or passive pair to pair current sensed may optionally use low	or resistance ba ver Icon-2P_unb,	lancing over the pairs Icut-2P, and ILIM-2P	Make the fol 1. Replace " In the baseli Icon-2P=Ico See good ex	lowing cha min(Icon-I ne text spe n-Iport-2P_ cample in L	anges in Figure 33-14b: port-2P_other, Icon-2P_unb) v ecify: _other or min(Icon-Iport-2P_ot _ennart's presentation.	vith Icon-2P. her, Icon-2P_u	nb).
per t	the following equ				Response		Response Status C		
Propose	IECT	Response Status Z			ACCEPT IN	PRINCIPL	- <b>C</b> .		
1120	2011				OBE by 175				
This	s comment was V	VITHDRAWN by the comment	er.						
TFT	D								
See	235.								
CI 33	SC 33.2.7.	7 P 88	L 11	# 55					
Darshan	n, Yair	Microsemi							
Commer 1. Fi To u 2. Fi To u (Th Iport 3. Pa	nt Type TR igure 33-14a on update the consta igure 33-14a on update the 1.6A/ <sup>7</sup> ne total current d t-2P.) age 89 line 19 e	Comment Status A lport-2P axis: ant 0.8A/TBD to 0.9A for better lport axis: TBD to (60W/50V)*1.15=1.38A oesnt include unbalance so the quation 33-6a: To change from	r margin. . ==> 1.4A ere is no need fo 0.8A to 0.9A	Pres: Yseboodt1					
Suggest	tedRemedy								
1. Fi To u 2. Fi To u 3. Pa	igure 33-14a on update the consta igure 33-14a on update the 1.6A/ <sup>-</sup> age 89 line 19 eo	lport-2P axis: ant 0.8A/TBD to 0.9A for better lport axis: IBD to 1.4A quation 33-6a: To change from	r margin. 0.8A to 0.9A						
Respons	se	Response Status C							
ACC	CEPT IN PRINCI	PLE.							
OBE	E by 175.								

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

Cl 33	SC 33.2.4.4	P <b>46</b>	L <b>32</b>	# 57	CI 33 SC	33.2.4.1
Darshan, `	Yair	Microsemi			Darshan, Yair	
Comment	Type <b>TR</b>	Comment Status D		PSE SD	Comment Type	TR Comme
Missir while "mr_p	ig mr_pse_alterna keeping old text ur se_alternative	tive A + B(x) in the following nchanged:	text and also w	e need to correct it	The text "De Table 33–4, Need to be u	tection, classification, Table 33–10, and Tal pdated to include mo
This v (see T mappe Value: B: The BOTH	ariable indicates v Table 33¡V2). This ed to the PSE Cor s:A: The PSE uses PSE uses PSE p I: The PSE uses b	which Pinout Alternative the I variable is provided by a ma ntrol register Pair Control bits s PSE pinout Alternative A. pinout Alternative B. oth Alternative A and Alternative	PSE uses to ap inagement inter s (11.3:2) or oth ative B."	ply power to the link face that may be er equivalent function.	SuggestedReme Change ""De in Table 33 To: "Connection specification	<i>dy</i> tection, classification 4, Table 33–10, and ∃ Check, Detection, cla s in Table 33-3a, Tab
Suggester	remeay				Response	Respons
"mr_p	se_alternative				ACCEPT IN	PRINCIPLE.
This v (see T mappo Value: A: The B: The BOTH	ariable indicates v fable 33-2). This v ed to the PSE Cor s: PSE uses PSE p PSE uses PSE p I: The PSE uses b	which Pinout Alternative the I ariable is provided by a man itrol register Pair Control bits binout Alternative A. binout Alternative B. oth Alternative A and Alternative	SE uses to ap agement interfa (11.3:2) or oth ative B."	ply power to the link ace that may be er equivalent function.	"Connection requirements in Table 33-1 on timing rec	Check timing require are specified in Tab 0. Autoclass timing uirements are specifi
To: "mr_p This v (see T mappe Value A: The B: The BOTH BOTH	se_alternative ariable indicates v 'able 33-2). This v ed to the PSE Cor s: PSE uses PSE p PSE uses PSE p PSE uses PSE p 11: The PSE uses 22: The PSE uses	which Pinout Alternative the I ariable is provided by a man itrol register Pair Control bits binout Alternative A. binout Alternative B. both Alternative A and Alterr both Alternative A and Alterr	PSE uses to ap agement interfa s (11.3:2) or oth native B. native B(x)."	ply power to the link ace that may be er equivalent function.		
Proposed REJE	<i>Response</i> CT.	Response Status Z				
This c	omment was WIT	HDRAWN by the commente	r.			
Why is A(X)	s this needed in th	e SD section? We don't list	whether the PS	E uses Alt A or Alt		

C/ 33	SC 33.2.4.	1 P4	2 L 7	#	58
Darshan, Ya	air	Micro	semi		
Comment T	ype TR	Comment Status	Α		PSE SD
The tex	t "Detection, o	classification, and powe	er turn-on timing sh	all meet the spe	ecifications in
Table 3	3–4. Table 33	3–10, and Table 33–11.	"		

ore tables with timing information.

, and power turn-on timing shall meet the specifications . Table 33–11."

assification, and power turn-on timing shall meet the ble 33–4, Table 33–10, Table 33-10a, and Table 33–11."

se Status C

ements are specified in Table 33-3a. Detection timing ole 33-4. Classification timing requirements are specified requirements are specified in Table 33-10a. Power turnied in Table 33-11.

C/ <b>33</b> Darshan, Ya	SC <b>3</b> 3 air	3.2.4.4		P 44 Microse	mi	L 6	# 59		C/ <b>33</b> Darshan, N	SC Yair	33.2.7.7	/ Mie	P <b>87</b> crosemi	L <b>37</b>	# 60
<i>Comment T</i> The var	<i>ype</i> iable P[	<b>TR</b> C D_4pair_can	Comment S id in page	Status A 44 line 6	and PD_4	pair_candidate	in page 45	PSE SD line 10:	Comment Figure	<i>Type</i> 33-14	TR title is inco	Comment Stat	us A		Pres: Darshan4
Not clea some o 1. Clarii 2. The v only wit 3. the v 4. In the both mo termino	ar they a f the cou fy the in- variable h 2P. ariable I e text of odes" in-	are two sepa ntent). tent. PD_4pair_c PD_4pair_ca PD_4pair_c stead of "bo	arate variab can is for T andidate is candidate c th pairsets	oles or di ype 3 an for Type on page 4 " if we w	fferent vari d Type 4 o e 3 and 4 so 15 lines 11- ant to keep	ables (the nam nly since Type o I guess it is th 15 we need to consistency w	e is different 1 and 2 will he correct w use the ten ith PD side	nt and I work variable. rm "on	See de Suggestec Replac Figure operat With: Figure PSEs	etails in dRemec ce: 33–14 te in 2-p e 33–14 or Type	updated F 	Gure 33-14/a/b/c CON state, per p Type 3 and Type CON state, opera De 4 PSEs that op	c in page 6 airset opera 4 dual-sign ating curren perate in 2-	of darshan_04 ating current te hature PSEs t templates for pair mode.	4_1015.pdf. mplates for PSEs that Type 1 and Type 2
SuggestedF Clarify t 1. Delet 2. Char modes"	Remedy the use te PD_4 nge from	of the two va pair_can in 1 "on both pa	ariables or page 44 lir airsets" on	adopt th les 6 -11 page 45	e following lines 14 ar	remedy: nd 15 (two locat	tions) to: "	on both	Response ACCE OBE t	PT IN F by 175.	PRINCIPLE	Response Statu E.	ıs C		
Response ACCEP	T IN PF	RINCIPLE.	esponse S	tatus <b>C</b>	:				C/ <b>33</b> Darshan, Y	SC Yair	33.2.4.4	/ Mie	P <b>45</b> crosemi	L <b>50</b>	# 61
Delete   PD_4pa	PD_4pa air_cand	ir_candidate I.	and repla	ce all ins	stances of I	PD_4pair_cand	lidate with		<i>Comment</i> The de See de	<i>Type</i> efinition etails in	TR of Iport-2F updated F	Comment Stat P_other is incorre Figure 33-14/a/b/o	us <b>A</b> ect. c in page 5	of darshan_04	PSE SD 4_1015.pdf.
Other ir	nstance	on page 70,	line 27.						Suggested Chang Outpu To: Iport-2 Outpu 2P and	dRemed ge "Iport ut curre 2P-other ut curre d Iport-2	dy t-2P-other nt on the o r nt on the o 2P-other au	ther pairset, defir ther pairset, defir re pairs of the sai	ned as IPo ned as IPor me polarity.	rt-2P-other = If t-2P-other =	Port - IPort-2P." IPort - IPort-2P. Iport-
									Response ACCE	PT.		Response Statu	ıs <b>C</b>		
									NonE2	Z					

Cl <b>33</b> Darshan, Y	SC <b>33.2.4.4</b> Yair	P <b>46</b> Microsemi	L <b>52</b>	# 62	<i>CI</i> <b>33</b> Darshan,	SC Yair	33.2.4.6	P <b>51</b> Microsemi	L <b>23</b>	# 64	
Comment The va Suggested Clarify If not u 4 state Response	Type <b>TR</b> ariable option_vp <i>Remedy</i> where it is being used: Add Editor e machine in the	Comment Status A ort_lim need to be used in the used in Type 3 and 4 state n Note: Editor Note: option_vp same way it was used in Typ Response Status C	e Type 3 and 4 s nachine. ort_lim need to b e 1 and 2.	<i>Pres: Bullock1</i> atate machine. we used in Type 3 and	Comment In the "Whe assig It is n and o Suggeste	<i>Type</i> text: n a PD ns the F ot clear nly assi d <i>Reme</i> d	TR requests a PD Class 3 why PSE o gns the PE dy	Comment Status <b>R</b> higher Class than a Type 3 , 4, or 6, whichever is the hig can't assigns the PD Class 3 O Class 3, 4, 5 or 6 as currer	or Type 4 PSE ghest that it can 8, 4, 5 or 6, whic ttly stated.	PSE can support, the PSE support." hever is the highest	∃ SD <u>=</u>
ACCE OBE b	PT IN PRINCIPL	E.			Chan "Whe assig	ge to: n a PD ns the F	requests a PD Class 3	higher Class than a Type 3 , 4, **5,** or 6, whichever is t	or Type 4 PSE the highest that	can support, the PSE it can support."	Ξ
Darshan, N Comment It is no E.g. Ty Or Tab	/air <i>Type</i> ER It clear if Table 3 ype 3 can use or ole 33-3 tells that	Microsemi Comment Status A 3-3 is about possible maximuly max of 1,2 or 4 and it may for type 3 we can use only 1	Im class_num_e use 3 events. ,2 and 4.	vents	<i>Response</i> REJE This i class class	e CT. s physic 5 since events	cal layer cla the PD ca (class 6).	Response Status C ass and is decribing power d n only tell the difference betw	emotion. A PS ween 3 class ev	E cannot demote to ents (class 4) and 4	
Suggested Group Response ACCE The ta of: "A vari A variabl So cle	Remedy to clarify the inte PT IN PRINCIPL ble defines the a able indicating the e that is set in a arly, it is the may	ent. <i>Response Status</i> <b>C</b> E. Ilowed values for class_num ne maximum number of class n implementation-dependent kimum. A Type 3 or 4 PSE ci	_events variable ification events manner." an use 3 fingers	, which has a definition performed by the PSE. as shown in the SD.	Cl 33 Darshan, Comment Adres Suggeste Repla Dual Response ACCE	SC Yair Type ssing du dRemed ace the e signatur EPT IN F t change	33.2.4.6 TR al signatur dy editor note re PDs is li PRINCIPLI es shown i	P 51 Microsemi Comment Status A e class codes by limiting DS with the following text: mited to use up to value 4 (c Response Status C E.	L 37 PDs to up to va lass 5) per pairs 0.pdf.	# 65 Pres: Lennar alue 4 (class 5). set.	t337
No cha	anges result from	accepting this comment.	5								

Comment ID 65

Cl 33 SC 33.2.4.6 Darshan, Yair	P <b>51</b> Microsemi	L <b>40</b>	# 66	Cl <b>33</b> Johnson,	SC 33.2.6.3 Peter	P <b>78</b> Sifos Techno	L <b>7</b> ologies	# 68
Comment Type ER The mr_pd_class_dete It looks like variable an Is it part of the function	Comment Status <b>A</b> acted is variable or function? d not belongs to the function do. classification?	s section.	PSE SD	Commen "Plea Engii	t Type E se see" seems lil	Comment Status <b>A</b> ke unusual language for a st n't that polite.	andard.	Editorial
In addition, there are m SuggestedRemedy Clarify if mr_pd_class_ mr_pd_class_detected following remedy: 1. Move mr_pd_class_ Clarify where class 5-8	detected is part of do_classified to be alligned with the other detected to section 33.2.4.4 is used in mr pd class detected to detected to detected to detected to section 33.2.4.4	it is shown in o ication. If YES function output	other place? than move s. If NO than use the he suggested remedy:	Engli Suggeste Repl: Respons ACC EZ	dRemedy ace "Please see" e EPT.	with just "See". Response Status C		
2. add values for class Response	5-8. C			Cl <b>33</b> Johnson,	SC 33.2.7.5 Peter	P 86 Sifos Techn	L <b>24</b> ologies	# 69
It is part of the do_clas Editor to move mr_pd_ other variables under th	sification function. class_detected to the proper he do_classification function.	indentation so	that it aligns with the	Commen "Figu from Suggeste Re-ti	<i>t Type</i> <b>E</b> re 33-13 - linrush Table 33-11, item <i>dRemedy</i> le this to "Figure	Comment Status A -2P current" figure descrip 5. 33-13- linrush and linrush-2	tion is missing a	Pres: Dwelley1 reference to Inrush
EZ	0.55		" [27]	Respons		Response Status C		
Darshan, Yair	P 55 Microsemi	<i>L</i> 1	# 67	ACC		LE.		
Comment Type TR	Comment Status A			We r	eed to fix this, bu	it inrush is not stable enough	n yet.	
Figure 33-9 is Type 1 a We agree that for Type and 2 state machine as	and 2 state diagram. 9 3 and 4 we will generate ne s it is in IEEE802.3-2012 vers	w state machine	e and we leave Type 1	No c	nange to draft.			
SuggestedRemedy To verify with Dan Dov If Yes, to restore to the	e if it was changed.	will not have to	spend time to review it					
Response ACCEPT IN PRINCIPL	Response Status <b>C</b> E.							
We reverted to the orig	inal Figure 33-9.							
No changes result from	n this comment.							
eZ								

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

Comment ID 69

C/ 33	SC 33.3.5.2	P 107	L <b>7</b>	# 70	CI 33 S	C 33.3.5.3	P 108	L <b>49</b>	# 72
Johnson,	Peter	Sifos Technolo	gies		Johnson, Pete	r	Sifos Technolo	gies	
Commen	t Type T	Comment Status A		PD Class	Comment Type	e T	Comment Status A		Autoclass
Per e "class class	arlier comment to s_sig_B" as asking ification.	D1.2, I still see the state varia for trouble and creating confi	ble names "cla usion with Dua	uss_sig_A" and I-Signature PD	The phrase (as defined of CLASS states "]	e "A PD imple d in Table 33- _EV1." sugge class in the r	ementing Autoclass shall remo 17a), resulting in a classificati ests 0mA class signature. This ange of Class 0 after Tacs".	ove its classific on signature of s is inconsister	ation current at Tacs f '0' for the remainder it with 33.2.6.2 where it
Prior	response was AIP	but needing a better substitut	te.		So what is	the estual re	auiromant 2. Class 0 or 0 mA	2 (noto this de	an have a 'shall' in it
Suggeste	dRemedy				SO what is	the actual re			Jes nave a shall in it)
Solut Chan Chan	ion 1: ge 'class_sig_A' to ge 'class_sig_B' to	o 'class_sig_init' o 'class_sig_final'			Also, this r Diagram, t given Type	equirement o hat state is no 3 or Type 4	only has meaning if CLASS_E ow CLASS_EV1_LCF. We sho PSE.	√1 is an LCF. ould stipulate t	In the PSE State hat this only happens
Solut	ion 2 (picture the 2	and 3 events?):			SuggestedRen	nedy			
Chan	ge 'class_sig_A' to	o 'class_sig_U'			Alter the p	hrase to:			
Solut Chan	ion 3: ge 'class_sig_A' to	) 'class_sig_m'			"When cor Class 0 się CLASS_E	nnected to a T gnature startir V1_LCF."	Type3 or Type 4 PSE, a PD in ng at Tacs (as defined in Table	iplementing Au 9 33-17a) for th	utoclass shall present a ne remainder of
Chan	ige class_sig_B to	class_sig_n			Response		Response Status C		
Chan	ge will require sea	rch and replace over 33.3 por	tions of docum	ent.	ACCEPT I	N PRINCIPLI	E.		
Response ACCI	e EPT IN PRINCIPL	Response Status <b>C</b> E.			OBE by 53	3			
The	rF is still searching	for the right names. We wel	come more su	ggestions.					
Cl <b>33</b> Johnson,	SC 33.3.5.3 Peter	P 108 Sifos Technolo	L <b>47</b> gies	# 71					
Comment Anoth	t <i>Type</i> <b>E</b> ner "Please see"	Comment Status A		Editorial					
Engir	neers aren't that po	olite.							
Suggeste Repla	dRemedy ace "Please see"	with "See".							
Response ACCI	e EPT.	Response Status C							
lam	that polite (and I w	rote it).							
EZ									

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

C/ 33	SC 33.3.5.3	P 109	L 1	# 73	CI 33	SC 33.2	2.7	P 79	L <b>33</b>	# 74
Johnson, I	Peter	Sifos Technologies	5		Johnson,	Peter		Sifos Techn	ologies	
Comment	Туре Т	Comment Status A		Autoclass	Comment	Туре Т	Comment	Status A		Pres: Yseboodt1
Currer	nt text is:				lcon i	n Table 33-1	11, item 4, is define	d as the "Con	tinuous total outp	ut current capability in

"After power up, a PD implementing Autoclass shall draw its highest required power throughout the period bounded by ..."

So what happens when a Type 3 or Type 4 PSE cannot support Pclass pd for this PD? Full loading by the PD during Autoclass will lead to power cycling with the PSE. Either the PD must restrict Autoclass load to its maximum power requirement GIVEN any particular power grant from the PSE (e.g. 13W, 25.5W, etc) or the Autoclass process needs to somehow abort.

#### SuggestedRemedy

Assuming the solution is that PD's must restrict Autoclass loads to PD's maximum power requirement \*GIVEN\* any particular power grant from the PSE:

"After power up, a PD implementing Autoclass shall draw its highest required power, in accordance with the pse\_power\_level resolved during classification, throughout the period bounded by ...."

Response Response Status C

ACCEPT IN PRINCIPLE.

OBE by 182.

POWER ON state". The minimum value is then expressed as Pclass/Vport pse 2p. This then requires that Pclass is the total power furnished by a PSE to a PD.

In draft 1.3, paragraph 33.2.6 added (p. 70, line 52) "For Type 3/DS and Type 4/DS PDs. Pclass applies to each pairset independently." This statement is also a problem with regard to the description of the Pclass equation where it says "...or Rchan = Rch/2 when powering using tow pairsets...".

These elements are contradictory and must be reconciled.

#### SuggestedRemedy

This may be a smaller piece of a bigger issue relating to Dual Signature PD's and whether those PD's generally constitute dual independent loads that are policed per pairset or without concern for pair-pair unbalance. Or if they are shared load devices where pair-pair unbalance interfers with policing per pairset.

I am not proposing a solution at this point for fear that this is not an easy fix until more funatmental issues about dual signature PD's are resolved.

If nothing else, an editors comment adjacent to Table 33-11 indicating that Icon and Pclass as used in Table 33-11 are not presently consistent with the handling of Dual Signature PD's.

Response	Response Status	С
ACCEPT IN PRINCIPL	E.	

OBE by 175.

CI 33	SC 33 2 0a	P3	2	/ 47	# 75
lohnoon	Dotor	Sifee	Tachnologiaa		# 13
Johnson,	Felei	31105	rechnologies		
Commen	t Type E	Comment Status	Α		Types
In Ta Type for ta	ble 33-1a, under " -3, Class 3&4 PSE bles in the standar	Supports 4-pair powe 's may provide 2 or 4 d.	er", the phrase 4 pair power.	) "Allow This is	ved" is used to say that s not typical terminology
Suggeste	edRemedy				
Repla	ace "Allowed" with	"Optional".			

Response Status C

Response

ACCEPT.

Comment ID 75

C/ 33 SC 33.2.4.1	P 42 L 23	# 76	CI 33 SC	33.2.6	P <b>72</b>	L <b>7</b>	# 79
Johnson, Peter	Silos Technologies		Jonnson, Peter	_	Sitos Tecr	inologies	
Comment Type T	Comment Status A	Editorial	Comment Type	E	Comment Status A		Editorial
"If a PSE perorms dete Suggest replacing this	ection using Alternative B (see 33.2.5.5)" is a .	a wierd phrase.	"NOTE 1 should be c	' pertains s ommuninc	specifically to Pclass in heated.	ader of column 3 c	of Table 33-7. This
SuggestedRemedy			SuggestedRem	ədy			
Eliminate text up to an	d including parenthesis and just say:		Follow "(Pcl	ass)" in co	lumn 3 heading with eithe	footnote "1" or "s	ee NOTE 1".
"See 33.2.5.5 for more	information on Alternative B detection backot	f requirements."	Response		Response Status C		
Response	Response Status C		ACCEPT.				
ACCEPT IN PRINCIPL	LE.		EZ				
Implement suggested	remedy and merge with previous paragraph.		C/ 33 SC	33.2.6	P 73	L 37	# 80
CI 33 SC 33 2 5 5	P70 / 14	# 77	Johnson, Peter		Sifos Tech	nologies	
Johnson. Peter	Sifos Technologies	$\pi$ []	Comment Type	т	Comment Status A		Pres: Beia
Comment Type E 33.2.5.5 was reference B" (See 33.2.4.1) S well. SuggestedRemedy "If a PSE that is perfor	Comment Status R ed with regard to PSE's that perform detection So to be consistent, suggest specifying "only A ming detection using only Alternative B (see 3	Backoff using "only Alternative Ilternative B" here as 3.2.3)"	Regarding T Classes 0 u This phrase Classes 0-8 text and it m possible sol SuggestedRem	ype-1 PSI p to and in seems aw and Class hight be mo ution is pro	E classification with single acluding 4, as listed in Table wkward in light of current st s 4 row indicates "2 or 3" e ore accurate if it referenced oposed here.	event: "Valid clas e 33-7." ructure of Table 3: vents. This is mos d Table 33-9 instea	sification results are 3-7 where there are now stly non-normative, old ad of Table 33-7. One
This way, there is no c	confusion with 4-pair detection cases.		Modify to:				
Response REJECT.	Response Status C		"Single-Ev 0, 1, 2, 3, or Class 0. If	vent Physic · 4 as listed a Type-1 F	cal Layer classification. V d in Table 33-9. A Type-1 PSE does not"	alid classification PSE detecting Cla	results include Classes ass 4 assigns that PD to
			The normat	ve text for	Type-1 PSF_treatment of	class 4 already ex	kists in 33.2.6.1.
C/ 33 SC 33.2.6	P71 L 22	# 78	Response		Response Status C		
Johnson, Peter	Sifos Technologies						
Comment Type E	Comment Status A	Editorial	AGOEI I III				
Equation 33-3 was mo descriptions for Eq. 33	ved to its proper place relative to text, howeve -3 were not moved.	r, the variable	OBE by 65.				
SuggestedRemedy							
Move variable descript	tions "where Vpse" to just below Equati	on 33-3.					
Response ACCEPT IN PRINCIPL	Response Status <b>C</b> LE.						
OBE by 158							
TYPE: TR/technical require COMMENT STATUS: D/dis SORT ORDER: Comment	ed ER/editorial required GR/general required spatched A/accepted R/rejected RESPON ID	T/technical E/editorial G/g SE STATUS: O/open W/wr	general itten C/closed Z/w	ithdrawn	Cor	nment ID 80	Page 23 of 71 10/15/2015 4:32:

32:16 PM

<i>CI</i> <b>33</b> Johnson, Pet	SC 33.2.6.2 ter	P <b>74</b> Sifos Technolo	L <b>33</b> ogies	# 81	<i>CI</i> <b>33</b> Johnson, P	SC 33 eter	.2.6.2	P <b>75</b> Sifos Technolo	L <b>22</b> ogies	# 83
Comment Ty Paragrap Ultimatel	<i>upe</i> <b>E</b> ph ends with "- ly, reference co	Comment Status <b>A</b> as defined in the state diagr uld be to different or additiona	am in Figure 33 al state diagran	Editorial 3-9". n(s).	Comment T The ph of state electric	Type 1 Irase "PSI e machine cal charac	<b>F</b> Es that i e behavi cteristics	Comment Status A mplement CLASS_EV1_LCI or squeezed between other p	F, when conne paragraphs tha	PSE Class cted" is a description at are describing
Editor No	<i>emedy</i> ote: "Update Fi	gure reference when state dia	agrams are cor	npleted."	Also, " PSEs"	PSEs tha	t implem	nent CLASS_EV1_LCF" is a	wordy way of	saying "Type 3 and 4
Response ACCEPT EZ	Г.	Response Status C			Suggested Move t of the f	Remedy his senter ïrst Class	nce dow	n by 2 or 3 paragraphs to pr	esent line 40 (j	just before "If the result
Cl <b>33</b> Johnson, Pet	SC 33.2.6.1 ter	P <b>74</b> Sifos Technolo	L <b>37</b> ogies	# 82	Response ACCEI	PSEST	inat impi	Response Status <b>C</b>	5 Type 3 and	Type 4 PSES .
Comment Ty Missing s SuggestedRe	vpe E space between vermedy	Comment Status <b>A</b> "5" and "Class".		Editorial	C/ <b>33</b> Johnson, P	SC 33 Peter	.2.6.2	P <b>75</b> Sifos Technolo	L <b>52</b> ogies	# 84
Change <i>Response</i> ACCEPT	to " maximum T IN PRINCIPLE	of 5 Class and 5 mark event <i>Response Status</i> <b>C</b>	ts."		Comment 7 "dete signatu classify	<i>Type</i> <b>E</b> ected durin re PD as the PD a	E ng CLAS a Type accordin	Comment Status A SS_EV1_LCF is a 0, a Type 1 PD and shall omit the sub- g to the result of the first Cla	3 or Type 4 PS sequent mark iss event."	PSE Class SE treats a dual- and Class events and
OBE by	159				Since v Suggested Chang	we know t <i>Remedy</i> e to:	the first o	class event is 0, save some	words.	
					"dete signatu classify <i>Response</i> ACCEI	ected duri ire PD as / the PD a PT.	ing CLA a Type as Class	SS_EV1_LCF is a 0, a Type 1 PD and shall omit the sub 5 0." <i>Response Status</i> <b>C</b>	3 or Type 4 P sequent mark	SE treats a dual- and Class events and

CI 33	SC 33.2.6.2		P 76	L <b>7</b>	# 85		CI <b>79</b>	SC	79.3.2		P 9		L <b>53</b>		# 86
Johnson, Pe	eter		Sifos Techno	logies			Skinner, Jo	ohn			Sifos	Technolo	gies, In		
Comment T	уре Т	Comment	Status A		PS	E Class	Comment	Туре	ER	Comme	ent Status	D			Pres: Mattias
" The	PSE shall clas	sify the PD or	nly once. Class	ification "			In Figure 79-3-Power Via MDI TLV format, the TLV information string length field states "TLV information string length = 14". This does not account for the additional fields "PD							field states I fields "PD	
Once fo	or all time? (th	ere is a "shall	" here)				measu octets	urement total).	s" and "P	SE Measu	irements",	which are	e each 4 octe	ets in lengt	h (therefore 8
Also, th splitting	e first half of th this into two pa	nis paragraph aragraphs.	seems to apply	to Single-Signa	ature PD's. Sugge	st	Suggested	Remed	y 	- the second states		<b>-</b>	0. Dama //		
Finally,	the 2nd to last	sentence "Se	e Annex 33E	" needs to go - 1	the following sente	ence	indicat	te "len	$_{\rm 100}$ inform	ation string '.	g length in	Figure 79	-3-Power VI	a MDI TLV	format to
"See Ar	nnex 33D" is t	the one that b	elongs.				Proposed	Respon	se	Respon	se Status	z			
SuggestedF	Remedy						REJE	CT.							
Modify t	Modify to:						This c	omment	t was WIT	THDRAWN	N by the co	mmenter			
" The Classifie	PSE shall clas cation"	sify the PD or	nly once followir	ng successful de	etection.		wfp								
Start ne skip"	ew paragraph w	vith "A Type 3	or Type 4 PSE	connected to a	dual-signature PD	) shall									
Remove	e 2nd to last se	entence startir	ng with "See An	nex 33E".											
Response ACCEP	T IN PRINCIPI	Response LE.	Status C												
Remove	e sentence "Th	e PSE shall c	lassify the PD o	only once."											
Start ne skip"	ew paragraph w	vith "A Type 3	or Type 4 PSE	connected to a	dual-signature PD	) shall									
Remove	e 2nd to last se	entence startir	ng with "See An	nex 33E…".											

CI 79 SC 79.3.2	P 9	L 27 # 87	CI 33 SC 33.3.5.	3 P 109	L 13	# 88			
Skinner, John	Sifos Technologies,	, In	Skinner, John	Sifos Technolo	ogies, In				
Comment Type TR	Comment Status D	Pres: M	ttias Comment Type <b>T</b>	Comment Status D		Autoclass			
Draft P802.3/D1.3 contain figure designation was us format. Modifying Figure how the Power Via MDI T	ns a modified Figure 79-3-Power ed in the 802.3at specification to 79-3 is invalid, as it would theref LV (in use today by Type 2 PSE	r Via MDI TLV format. This sa o define the Power Via MDI TI fore modify the specification of is and PDs that conform to	e Tacs Max 87.5ms as for a PD that suppor Autoclass.	facs Max 87.5ms as defined in Table 33-17a does not appear to provide sufficient m for a PD that supports Autoclass to be correctly recognized by a PSE that supports Autoclass.					
802.3at)is formatted.			A PSE is allowed to 10) If there is any ti	terminate CLASS_EV1_LCF at mer inaccuracy between the PSF	Fand PD_the 5	as defined in Table 33-			
(There should be no expe length field is the ONLY d the received TLV is the ol This new form will indicate	ectation that existing parsers will listinguishing characteristic that i d form defined by 802.1AB or th e a different length forcing news	recognize the new format, as is now used to determine whe ie new form defined by 802.32 r parsers to handle 3 possible	ne afforded by Tacs ma ner identified, even thou frame. (would admitt	afforded by Tacs max could lead to a case where a PDs autoclass capability will not be identified, even though that PD is changing the class signature within the specified time frame. (would admittedly be poor design practice, but conformant)					
formats).			A conservative appropriate provide adequate main	bach would be to reduce the valu argin to account for any timer ina	e of Tacs Max	in Table 33-17a, to en the PSE and PD.			
The existing figure could b	be altered in such a way as to sh	how the existing 12 octet vers	n, SuggestedRemedy						
overly complicated figure.	It would be much clearer to use	e a separate figure to describe	he Change the value of	Tacs Max in Table 33-17a, Item	1 to 85.5 ms.				
(extended, revised) TLV.			Proposed Response	Response Status Z					
SuggestedRemedy			REJECT.						
Remove the edits from "F figure as originally publish	igure 79-3-Power Via MDI TLV f ned in 802.3at.	format", restoring it to the sam	This comment was V	This comment was WITHDRAWN by the commenter.					
Add a new figure, titled "F page 10, to document the	igure 79-3a-Power Via MDI TLV new 22 octet form of the Power	/ extended format", at the top r Via MDI TLV.	f This value was incre PSE to check the PI most PSEs will have	ased in D1.3 due to PD timing m D class current before it ends the a timer set for 95ms or so and t	argin requirem LCF. 88ms is	ents. It is up to the a minimum. I imagine the class current and			
Modify the existing last tw 32 and 33 on page 9, white	o sentences in the explanatory p ch read:	paragraph located between lir	s then transition to ma	rk					
"This TLV is also required Figure 79–3 shows the for	I to perform Data Link Layer clas rmat of this TLV."	ssification as defined in 33.6.							
to this statement:									
"This TLV is also required format of the TLV to be us PDs is shown in Figure 79 classification by Type 3 ar	to perform Data Link Layer classed to perform Data Link Layer of 9–3. The format of the TLV to be nd Type 4 PSEs and PDs is sho	ssification as defined in 33.6. classification by Type 2 PSEs a used to perform Data Link La wm in Figure 79-3a."	ne nd ver						
Proposed Response	Response Status Z								
REJECT.									
This comment was WITH	DRAWN by the commenter.								

wfp

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

Comment ID 88

C/ 79	SC	79.3.2	P 10	L <b>3</b>	# 89	C/ 79	SC	79.3.2.2	P 10	L <b>44</b>	# 90
Skinner, J	ohn		Sifos Technol	logies, In		Skinner, J	ohn		Sifos Techn	ologies, In	
Comment	Туре	ER	Comment Status D		Pres: Mattias	Comment	Туре	Е	Comment Status A		Pres: Mattias
There to the	is an e legacy	explanator Power via	y paragraph at the top of Pag a MDI TLV originally defined I	e 10 that desci by 802.1AB.	ribes the revisions made	IETF no allo both	RFC 362 owance t pairs).	21 pethPs for other i	ePortPowerPairs only defin nteger values (for example	nes "signal(1)" an , 0 indicating unk	d "spare(2)". There is nown, or 3 indicating
As the	e 802.3	bt specific	ation is again revising the Po act an additional explanator	wer via MDI TL	V (most recently revised	Suggestee	dRemed	У			
the ex	tensior	ns that are	being added to support Type	e 3 and Type 4	devices.	Add s	entence	at the en	d of the existing paragraph	that is located or	n lines 43 and 44:
Suggeste	dReme	dy				"Type	3 or Tyr	e 4 PSE	s that are furnishing power	on a single pairs	et shall use the value
Add tl	ne follov	wing sente	ence to the end of the paragra	aph on Page 10	), line 10:	that d	efines th	at pairset	: (signal=Alternative A, spa	re=Alternative B)	. Either pairset may be
"The	FLV sho	own in Fig	ure 79-3 has been and will c	ontinue to be u	sed by Type 2 power	indica PSE p	ted whe	n furnishii atus value	ng power on both pairsets, e field defined in 79.3.2.6a.	as that condition	is communicated by the
entitie	s."					Response			Response Status C		
Insert	the foll	lowing par	agraphs after line 11, before	the heading '79	9.3.2.1 MDI power	ACCE	PT.				
ouppe						CI <b>79</b>	SC	79.3.2.5	P <b>12</b>	L 14	# 91
"The in 802	"The TLV shown in Figure 79-3a is a revision of the Power Via MDI TLV originally defined			I TLV originally defined	Skinner, J	ohn		Sifos Techn	ologies, In		
fields	that sha	all be use	d by Type 3 and Type 4 powe	er entities.		Comment	Туре	т	Comment Status A		Pres: Mattias
In ord the TI	er to su V shov	upport Typ wn in Figu	e 2 PDs, Type 3 and Type 4 re 79-3, as well as the TLV s	PSEs will need hown in Figure	I to be able to recognize 79-3a. Per 79.3.2.7,	The v "decin	alid valu nal 1 thr	es for the ough 255	requested power value fie " to "decimal 1 through 999	ld in Table 79-5 h )".	ave been changed from
only c	ne torn	nat ILV si	nould be present in an LLDPL	JU."		This fi 255"	eld as d	efined for	use by Type 2 power entit	ies was the range	e "decimal 1 through
[NOT	E that th	he figure r	eference in this remedy is re	lated to accept	ance of the comment	. 2002 Sunnester	Romod	v			
that re addec	equires	that a nev 3.2.1	v figure titled "Figure 79-3a-F	ower via MDI	ILV extended format" be	Chan	ne the st	y atement i	n the Value/meaning colur	nn of Table 79-5 i	to <sup>.</sup>
Proposed	Respo	nse	Response Status 7			e la la	<i>yo</i> o o.		in the Falae, meaning cola		
REJE	CT.					"Valid throug	value fo ph 999 fo	or these b or Type 3	its are decimal 1 through 2 and Type 4 PDs."	55 for Type 2 PD	s, and decimal 1
This c	ommer	nt was WI	THDRAWN by the commenter	er.		Response			Response Status C		
TETO			-			ACCE	PT IN P	RINCIPL	E.		
IFID						Add : clarifie	"Editor's ed. Corr	Note: TI	ne interaction of DLL and F e welcome."	Physical Layer Cla	assification needs to be
						to top	of 33.3.	5.			

CI 79	SC 79.3.2.6	P <b>12</b>	L 38	# 92	CI 33	SC 33	3.2.6	P <b>71</b>	L <b>20</b>	# 94
Skinner, J	ohn	Sifos Techno	ologies, In		Skinner, J	ohn		Sifos Techno	ologies, In	
Comment	Туре <b>т</b>	Comment Status A		Pres: Mattias	Comment	Туре	E	Comment Status A		Editorial
The va "decin	alid values for the nal 1 through 255	e requested power value fiel " to "decimal 1 through 999	d in Table 79-6 ł ".	nave been changed from	Parag inform	raph disc nation fror	ussing <i>i</i> n Table	Autoclass based PSE minim 33-10a.	num power settin	g refers to non-existent
This fi 255".	eld as defined for Values greater t	r use by Type 2 power entiti han 255 are not valid for pre	es was the range- e-existing Type 2	e "decimal 1 through 2 implementations.	Suggester The e	<i>dRemedy</i> nd of the	last sen	tence on lines 19 and 20:		
Suggestee	Remedy				"ma	y choose	to use a	a lower Autoclass margin th	an those listed ir	n Table 33-10a."
Chang	ge the statement	in the Value/meaning colum	n of Table 79-6	to:						
"Valid throug a Type	value for these b h 999 for Type 3 e 2 PD, the valid	its are decimal 1 through 25 and Type 4 PSEs. When a values will be limited to the	55 for Type 2 PS Type 3 or Type Type 2 range, de	Es, and decimal 1 4 is furnishing power to ecimal 1 to 255."	snoul "ma Response	d be chan ly choose	ged to r to use a	a lower Autoclass margin th	of the margin info	prmation: a Equation (33-3a)."
Response		Response Status C			ACCE	PT.				
ACCE	PT IN PRINCIPL	E.								
OBE P	y 91				EZ					
Cl 33	SC 33.2.6	P 70	L 48	# 93	<i>CI</i> <b>33</b> Skinner, J	SC 33 ohn	3.2.6	P <b>72</b> Sifos Techno	L <b>7</b> ologies, In	# 95
Comment	onn <i>Tvpe</i> <b>E</b>	Comment Status A	ologies, In	Editorial	Comment Table	Type	E	Comment Status A	tion Evente" is n	Pres: Beia
Descr	iption of classification	ation missing clarifying lange	lage.	20101101	does	not comm	unicate	what the table is trying to c	onvey.	or rully descriptive, and
Suggested	Remedy				Suggeste	dRemedy				
Repla	ce:				Chan	ge columr	n headir	g:		
"the	PD responds wit	h a current representing a li	mited number of	f power classifications."	"Num	ber of Cla	ssificati	on Events"		
with:					to:					
"the	PD responds to	each class event with a curr	ent representing	one of a limited	"Num	ber of Cla	ssificati	on Events Required to Achi	eve Minimum su	pported power levels."
Rooponoo					Response	)		Response Status C		
ACCE	PT.	Response Status C			wait fo	or present	ation.			
EZ										

C/ 00 SC 0 P L # 96	C/ 33     SC 33.3.5.2     P 106     L 48     # 98       Skinner, John     Sifos Technologies In
Comment Type E Comment Status A Editorial	Comment Type F Comment Status D PD Class
There are a number of sentence constructs that use the "Oxford" comma style, example: "MARK_EV1, MARK_EV2, MARK_EV3, or MARK_EV4"	The descriptive text includes "DO_CLASS_EV6", which is also shown in Figure 33-16. The state diagram in Figure 33.9d, and the related tables and text in subclause 33.2.6 only define five class events (CLASS_EV5 the last).
and constructs that do not use this form, where the last comma is omitted, example:	There appears to be no use of, and therefore no need to describe a sixth class event in subclause 33.3.
"MARK_EV1, MARK_EV2, MARK_EV3, MARK_EV4 and MARK_EV_LAST".	SuggestedRemedy
SuggestedRemedy The document should use a consistent comma style for listing multiple associated entities. (this commenter's preference is the Oxford style)	Remove "DO_CLASS_EV6" from the paragraph at line 48, and remove the state "DO_CLASS_EVENT_6" from Figure 33-16.
Response Response Status C	If this remedy is accepted, it will also be necessary to remove "DO_CLASS_EVENT6" from the third paragraph under 3.3.5.2.1, page 108, line 34.
ACCEPT.	Proposed Response Response Status Z
A man after my own heart	REJECT.
EZ	This comment was WITHDRAWN by the commenter.
Cl         33         SC         33.2.7.4         P 83         L 46         # 97           Skinner, John         Sifos Technologies, In         Sifos Technologies, In         97	The 6th class event state is used to define PD behavior for any class event greater than 5. It is needed, just as class event 3 was defined as part of AT. Defined behaviors make things much easier in case we need to add some more states later.
Comment Type ER Comment Status A Pres: Darshan3	
First paragraph uses the parameter name Icon-TBD when discussing dual-signature PDs, "as specified in Table 33-11.".	CI 33         SC 33.3.5.2         P 106         L 47         # 99           Skinner, John         Sifos Technologies, In
There is no parameter named Icon-TBD in Table 33-11.	Comment Type E Comment Status A Editorial
SuggestedRemedy	The state names "DO_CLASS_EV1", "DO_CLASS_EV2", "DO_CLASS_EV3",
Add the parameter "Icon-TBD" to Table 33-11, identify as Item 4b. If this parameter is not yet worked out, the Min and Max values should be listed as TBD.	"DO_CLASS_EV4", "DO_CLASS_EV5", and "DO_CLASS_EV6" used in the text do not match the state names used in the state diagram shown in Figure 33-16. The state names in Figure 33-16 use the form "DO_CLASS_EVENTn".
Alternatively - replace the reference to "Icon-TRD" in 33.2.7.4 line 46 with the parameter	SuggestedRemedy
name "Icon", as the remainder of the normative statement specifies this is the continuous current on each pairset, and the existing parameter Icon already defines the continuous	Change the names of the states listed in lines 47 and 48 to match the names used in the state diagram shown in Figure 33-16.
current on a pairset. If this remedy is accepted, the parameter "Icon-TBD" in the first sentence of the paragraph on page 84 line 1 will also need to be replaced with the parameter name "Icon".	Response Response Status C ACCEPT.
Response Response Status C	EZ
ACCEPT IN PRINCIPLE.	
OBE by 175.	

C/ 33 Beja, Chris	SC 33.2.7	P <b>80</b> STMicroelect	L 25	# 100	C/ <b>33</b> Beia, Christ	SC <b>33.2.6</b> ian	P <b>72</b> STMicroelect	L 16	# 101			
Cl 33 Beia, Chris Comment Table The di 1.14*I It can Suggested Repla Response ACCE	SC <b>33.2.7</b> stian <i>Type</i> <b>E</b> 33-11 efinition of Ilim_2 cable. be calculated us <i>dRemedy</i> ce Ilim_2P, colu PT.	P 80 STMicroelect Comment Status A 2P is explicit for all classes, ex sing Icable definition in Table mn min, row PSE Type 2, 1.1 Response Status C	<i>L</i> 25 ronics xcept for Type2 33-1 (0.6A for T 4*Icable, with 0	# 100 Pres: Beia Class 4 where it is ypes 2,3) 684	Beia, Christian       STMicroelectronics         Comment Type       ER       Comment Status A       Pres:         Table 33-7       Pclass values can be defined as a single number, in order to make the requirement clearer, and easily readable.       Today it is needed to compare Pclass with Ptype. The calculation of Ptype requires looki at different tables.         Ptype definition in Table 33-11:       Icable * Vport_PSE_2p_min for Types1,2, and 3 up to Class4; 2* Icable * Vport_PSE_2p_min for Type3 classes 5-8; 90W-99.9W for Type4.         Icable definition in Table 33-11:       0.35A for Type1;         0.6A for Type2,3;       0.96A for Type4.         Vport_PSE_2p_min definition in Table 33-11:       44V for Type1;         50V for Type3,3;       52V for Type4.							
					52V fr The res - 15.4W - 30.0W - 60.0W - 90W f So, at t doesn't	or Type4. I for Type 1 for Type 2 a for Type 3 c for Type4 ne end Ptype add any rest	culation of Ptype is: nd Type 3 classes 0-4 lasses 5-8 is never lower than the defined riction to Pclass.	d Pclass and c	can be removed since it			
					Suggestedf Change Class 4 Class 5 Class 6 Class 7 Class 7	Remedy - Table 33-7, : 30W : 45W : 60W : 75W : 90W	third column (Pclass), classes	4 to 8, as follo	ows:			

Comment ID 101

Response     Response Status     C       ACCEPT IN PRINCIPLE.     C	Cl 33         SC 33.3.7.2         P 112         L 23         # 103           Bennett, Ken         Sifos Technologies, In
OBE by 65	Comment Type ER Comment Status A PD Power
C/ 33         SC 33.2.7         P 81         L 7         # 102           Beia, Christian         STMicroelectronics	It's not clear that the PClass_PD limit in table 33-18 is determined by the Class assigned (or allocated) by the PSE. The suggested remedy adds a clarifying sentence to 33.3.7.2.
Comment Type ER Comment Status A Pres: Beia	Add the following after the first sentence of 33.3.7.2:
PSE power type minimum value can be calulated instead of leaving the burden to the reader. This makes the table clearer and avoids misinterpretations.	PClass_PD in table 33-18 is determined by the Class assigned by the PSE. Response Response Status C ACCEPT IN PRINCIPLE.
0.35A for Type1; 0.6A for Types2.3:	Add new sentence as 1st sentence in 33.3.7.2.
0.96A for Type4.	C/ 33         SC 33.3.2         P 97         L 1         # 104           Bennett, Ken         Sifos Technologies, In
<ul> <li>Vport_PSE_2p_min definition in Table 33-11:</li> <li>44V for Type1;</li> <li>50V for Types2,3;</li> <li>52V for Type4.</li> </ul>	Comment Type     T     Comment Status     A     PD Class       The second sentence at the top of the page states:     Two 4/DS PDe only advertise Class 5
The result of the calculation of Ptype is: - 15.4W for Type 1 - 30.0W for Type 2 and Type 3 classes 0-4	Which does not match the two statements below:
- 60.0W for Type 3 classes 5-8 SuggestedRemedy	Pg 96, Ln 54: "Type 4/DS PDs advertise a Class signature of 5 on at least one pairset." Pg 107, Ln 45: "Dual-signature PDs may advertise a different Class signature on each pairset."
Change Table 33-11 Item 12: - split the first row and make one for PSE Type1 and another for PSE Type 2 - For PSE Type 1 replace comumn Min Icable * (Vport_PSE-2p min) with 15.4 - For PSE Type 2 replace comumn Min Icable * (Vport_PSE-2p min) with 30.0	SuggestedRemedy Change pg 97 Line 1 to:
- For PSE Type 3(note1) replace comumn Min Icable * (Vport_PSE-2p min) with 30.0	Type 4/DS PDs advertise Class 5 on at least one pairset.
- For PSE Type 3 replace comumn Min 2*Icable * (Vport_PSE-2p min) with 60.0	Response Response Status C
ACCEPT.	ACCEPT.

C/ 33 SC 33.6.3.2	P 142	L <b>53</b>	# 105	C/ 33	SC 33.2.4.7	P 64	L <b>21</b>	# 107
Bennett, Ken	Sifos Techno	logies, In		Bennett, k	Ken	Sifos Techno	ologies, In	
Comment Type TR	Comment Status R		DLL	Comment	Type TR	Comment Status A		PSE SD
PSE_INITIAL_VALUE limits. A range should	E settings for Class 6 and Clas I be used for these so that nor	ss 8 are currently e-extended value	the extended-power s can be used.	The T descr	ype 3 and 4 State bed in Table 33D-	diagram in 33-9D needs to 1 and 33D-2.	be updated to p	provide the behaviors
SuggestedRemedy				This i	s comment 2 of 4 a	and refers to the output of (	CLASS_EV2	
Change "600" to "<= Change "900" to "<=	600" 900"			( Note	: (pse_avail_pwr>	3); 3="Class 4" )		
Response	Response Status C			Suggeste	dRemedy			
REJECT.				Chan	ge Path leading to	MARK_EV_LAST to:		
These values can't be	e a range.			Tcle2 [ [(sig (sig_t	_timer_done * (mr _type=single) * (pc ype!=dual) ]	_pd_class_detected=temp_ l_req_pwr>=pse_avail_pwr	_var) * `)] +	
Cl 33 SC 33.2.4.7 Bennett, Ken	P 64 Sifos Techno	L <b>10</b> logies, In	# 106	Chan	ge Path leading to	MARK_EV2 to:		
Comment Type <b>TR</b> The Type 3 and 4 Sta described in Table 33	Comment Status <b>A</b> ate diagram in 33-9D needs to 8D-1 and 33D-2.	be updated to p	PSE SD rovide the behaviors	Tcle2 [ [(sig (sig_t	_timer_done * (mr_ _type=single) * (ps ype=dual) ]	_pd_class_detected = temp e_avail_pwr>3)] +	p_var) *	
This is comment 1 of	4 and refers to the output of C	LASS_EV1_LC	F	Response	PT	Response Status C		
(Note: (pse avail pw	vr<3); 3="Class 4" )			AUUL				
SuggestedRemedv	,. ,			Dave	A. to implement			
Change Path leading	to MARK_EV_LAST to:							
Tlcf_timer_done * [ [(sig_type=single) * [( [(sig_type=dual) * (pd	mr_pd_class_detected<4) + (p l_req_pwr>pse_avail_pwr)] ]	ose_avail_pwr<3	)]]+					
Change Path leading	to MARK_EV1 to:							
Tlcf_timer_done * [ [(sig_type=single) * [ [(sig_type=dual) * (pd	(mr_pd_class_detected = 4) * I_req_pwr <= pse_avail_pwr)] /	(pd_req_pwr <= ]	pse_avail_pwr)]+					
Response	Response Status C							
ACCEPT.								
Dave A. to implement	t							

C/ <b>33</b> Bennett, Ke	SC <b>33.2.</b> en	4.7	P <b>64</b> Sifos Techno	L <b>27</b> blogies, In	# 108		CI <b>33</b> Bennett, Ke	SC <b>33.2.</b> 4	4.7	P <b>64</b> Sifos Technol	<i>L</i> <b>35</b> ogies, In	# 109	
Comment 7	Type TR	Comm	ent Status A			PSE SD	Comment 7	Type TR		Comment Status A		PSE SD	
The Ty describ	pe 3 and 4 ed in Table	State diagram 33D-1 and 33	in 33-9D needs to D-2.	be updated to pr	rovide the behav	iors	The Ty describ	pe 3 and 4 3 bed in Table	State 33D-	diagram in 33-9D needs to 1 and 33D-2.	be updated to p	provide the behaviors	
This is	comment 3	of 4 and refers	s to the output of	CLASS_EV3			This is	comment 4	of 4 a	and refers to the output of C	LASS_EV4		
(Note:	(nse avail	nwr-4 nse av	(ail nwr>4): 4-"(	(Jass 5" )			Suggested	Remedy					
Suggested	(pse_avall_ Remedv	_pwi=4, pse_a	/all_pwi>+), += C	1035 5 )			Change	e Path leadii	ng to	MARK_EV_LAST to:			
Change Tcle3_1 [ (sig_t [ (sig_t ]]	e Path leadi timer_done ype=single) ype=dual) *	ng to MARK_E * [(mr_pd_clas * (pd_req_pwr [(mr_pd_class	V_LAST to: s_detected=4) + >pse_avail_pwr) _detected = 0) +	* (pse_avail_pwr= (pd_req_pwr > ps	=4) ] + e_avail_pwr)		Tcle3_timer_done * (mr_pd_class_detected = temp_var) * [ (mr_pd_class_detected<2) + [(sig_type=single) * (pd_req_pwr>pse_avail_pwr)] + (sig_type=dual) ] Change Path leading to MARK_EV4 to:						
Change Tcle3	e Path leadi	* [(mr pd clas	v3 to: s detected!=4) *				l cle3_1 [(mr_po (sia_tvi	timer_done d_class_dete pe!=dual)] ]	* (mr_ ected	_pd_class_detected=temp_` >1) * [ [(sig_type=single) * (	var) * pd_req_pwr<=p	ose_avail_pwr)] +	
[ (sig_t) (pd_red [ (sig_t)	ype=single) q_pwr<=pse ype=dual) *	* [(pd_req_pw e_avail_pwr) ] + [(mr_pd_class	r>pse_avail_pwr) - detected=3) + (p	* (pse_avail_pwr od_req_pwr<=pse	>4)] + e_avail_pwr)] ]		Response ACCEF	РТ.		Response Status C			
Response		Respon	se Status C				Dave A	. to impleme	ent				
ACCEF	PT.												

C/ <b>33</b> Bennett, Ker	SC <b>33.2.4.7</b>	P <b>59</b> Sifos Techno	<i>L</i> <b>42</b> blogies, In	# 110	C/ <b>33</b> Yseboodt,	SC 33 Lennart		P <b>0</b> Philips	L <b>0</b>	# 112
Comment Ty	vpe TR	Comment Status A		PSE SD	Comment	Туре Е	ER (	Comment Status A		Editorial
The CLA	ASS_EVAL box	outputs in the State diagram	m of 33-9A needs	to be updated.	Page	numbers ir	n the PDF	reset on clause boundar	ry.	
The Clas PSE Ava	ss Eval box cur ailable power.	rently denies power in all ca	ases when the PD	request exceeds the	Suggester Editor docur	<i>Remedy</i> to make sinent page r	sure page n nr.	umbering keeps going s	such that PDF pa	ge nr matches with
The sug	gested remedy	produces the behaviors de	scribed in Tables	33D-1 and 33D-2.	Response		R	esponse Status <b>C</b>		
(Note: (	pse_avail_pwr<	<2); 2="Class 3,0" )			ACCE	PT IN PRI	INCIPLE.			
SuggestedR	Remedy				OBE	by commer	nt 6			
Change	Path leading to	POWER_UP to:			EZ					
ted_time (pse_av	er_done * [ (pd_ ail_pwr>1)] ]	_req_pwr<=pse_avail_pwr) -	+ [(pd_req_pwr>ps	se_avail_pwr) *	C/ <b>30</b> Yseboodt	SC 30. Lennart	.9	P 6 Philips	L <b>5</b>	# 113
Change	Path leading to	POWER_DENIED to:			Commont		= <b>D</b> (	Comment Status		Management
!ted_tim	er_done + [ (pd	l_req_pwr>pse_avail_pwr) *	* (pse_avail_pwr<2	2) ]	We ne	ed to visit	Clause 30	.9 when Clause 33 is st	able to implemen	t all additions.
Response ACCEP	T.	Response Status C			S <i>uggeste</i> e Add e 79".	dRemedy ditors note	e to 30.9: "T	ODO: visit this section	and make consis	tent with Clause 33 &
	Implement				Response		R	esponse Status C		
C/ 33 Yseboodt, Le	SC 0 ennart	Р <b>0</b> Philips	L	# 111	ACCE	PT.				
Comment Tv	vpe ER	Comment Status A		Editorial	EZ					
The cap eg. Clas	italization of Class 5, Class 7.	ass should only have been	done when referrir	ng to a power Class.	<i>CI</i> <b>33</b> Yseboodt,	SC 33. Lennart	.2.7.6	P <b>86</b> Philips	L <b>42</b>	# 114
Somethi	ing like a class	event should not be capita	lizea.		Comment	Туре Е	ER (	Comment Status A		PSE Power
SuggestedR Editor to	<i>emedy</i> o go through do	cument and check capitalize	ation of Class and	class.	origin: ICUT-	al text: "If If 2P for long	Port-2P, th ger than TC	e current supplied per p CUT-2P, the PSE may re	airset by the PSE emove power fror	to the PI, exceeds that pairset."
Response	-	Response Status C				It shou	uld be Icut-	2P(min) and Tcut-2P(m	in)	
ACCEP	1.				Suggeste	Remedy				
EZ					"If IPc longe	rt-2P, the c than TCU	current sup IT-2P min,	plied per pairset by the the PSE may remove p	PSE to the PI, ex ower from that pa	ceeds ICUT-2P min for airset."
					Response		R	esponse Status <b>C</b>		
					ACCE	PT.				

TYPE: TR/technical required ER/editorial required GR/general required T/technical E/editorial G/general COMMENT STATUS: D/dispatched A/accepted R/rejected RESPONSE STATUS: O/open W/written C/closed Z/withdrawn SORT ORDER: Comment ID Comment ID 114

C/ 33 SC	33.2.0a	P 32	/ 45	# 115		C/ 33	SC	33 2 4 4		P 46	/ 15	# 117
Yseboodt, Lenna	art	Philips	•			Yseboodt	, Lennar	t		Philips		
Comment Type	т	Comment Status D			Types	Comment	Туре	т	Commen	t Status D		PSE SD
Optional is m	nisleading,	see footnote as exception				"The	PSE mo	nitors eith	er the DC of	AC Maintain F	Power Signature (	MPS, see 33.2.9.1)."
SuggestedReme	edy					AC IVI		, 101 EXIST	anymore m	Type 5 and 4		
Change to "(	Optional^2	or Mandatory"				Suggeste	aRemea	ly 	<b>F</b>		AO Malatala Da	
"Multiple-Eve	to the left of ent or Singl	e-Event", so it matches in log	gical order.			Туре	3 and Ty	ype 2 PS ype 4 PSE	Es monitor e	e DC Maintain	Power Signature	(MPS, see 33.2.9.1)."
Proposed Respc	onse	Response Status Z	-			Proposed	Respon	se	Response	Status Z		
REJECT.						REJE	CT.					
This comme	ent was WIT	HDRAWN by the commente	r.			This o	commen	t was WIT	HDRAWN b	by the comment	ter.	
						C/ 33	SC :	33.2.6.2		P 76	L <b>7</b>	# 118
C/ 33 SC	33.2.4.4	P <b>45</b>	L <b>23</b>	# 116		Yseboodt	, Lennar	t		Philips		
Yseboodt, Lenna	art	Philips				Comment	Туре	т	Commen	t Status A		PSE Class
Comment Type	т	Comment Status A		F	PSE SD	The s	entence	: "The PS	E shall class	sify the PD only	once".	
"1: PSE perf	forms Singl	e-Event Physical Layer class	ification."			Seem PD, b	ns to pree out it nee	clude clas ds to be c	sification of lassified on	dual signature each pairset.	altogether. After a	all, a DS PD is ONE
Since we no	w consider	1 class_ev + 1 mark_ev = M	ultiple-event, th	is is no longer cor	rrect	Suggeste	dRemed	lv		·		
for Type 3 ar	nd 4.					Remo	ove "The	PSE sha	Il classify the	PD only once		
SuggestedReme	ədy					Response	ć		Response	Status C		
"1: A Type 1 A Type 2 PS	PSE perfo E performs	rms Single-Event Physical La Single-Event Physical Laye	ayer Classificati	on. or Multiple-Event		ACCE	EPT IN F	RINCIPL	E.			
Physical Lay A Type 3 or maximum of	/er classific Type 4 PSI 1 Class ev	ation with a maximum of 1 C E performs Multiple-Event Pr rent."	lass event. Iysical Layer cla	assification with a		OBE	by 85					
Response		Response Status C										
ACCEPT IN	PRINCIPL	E.										
"1: PSE perf Layer classif	forms Singl	e-Event Physical Layer Class	sification or Mult	tiple-Event Physic	cal							

C/ <b>33</b> Yseboodt	SC 33.2.6.2	P 77 Philips	L <b>27</b>	# [119	C/ <b>33</b> Yseboodt	SC 33.3.5.2	P <b>107</b> Philips	L <b>45</b>	# 121
Comment	Type <b>T</b>	Comment Status A		PSE Class	Comment	<i>Type</i> <b>T</b>	Comment Status R		PD Class
Table	33-10, item 8 on	T_ME2.			"Dual	-signature PDs m	nay advertise a different Cla	ss signature on e	ach pairset."
"The r detect This m	naximum value o tion until power-o neans the maxim	f T ME2 cannot exceed the r n which is limited by 33.2.7.1 um time is Tpon, which is no	naximum allowe 2." t the intention.	d time from end of	Do we It add - uniq - pow	e really want to w ls significant com jue behaviour / ru er demotion very	rite this out in the standard plication as it has: les for continuous power tricky	?	
Suggested	dRemedy				Suggeste	dRemedy			
"The r 33.2.7	maximum value o '.12."	f T ME2 may not cause a vic	lation of Tpon, a	as defined in section	Remo We d	ove this sentence on`t forbid DS/un	equal classes, we simply do	o not specify it at	all.
Altern	ative: remove ad	d. info.			Response	e e	Response Status C		
Response		Response Status C			REJE				
ACCE	PT.				CI 33	SC 33.3.5.2	P 108	L 18	# 122
"The r	maximum value o	f T ME2 is limited by Tpon, a	s defined in sec	tion 33.2.7.12."	Yseboodt	, Lennart	Philips		
C/ 33 Yseboodt,	SC 33.2.6.3 Lennart	P <b>78</b> Philips	L <b>44</b>	# 120	Comment Table Tlcf =	<i>Type</i> <b>T</b> 33-17, item 7 is 88 to 105 ms.	Comment Status A Long first Class Event timin	g, Tlcf_pd, with ra	PD Class ange 75.5 to 87.5 ms.
Comment Autocl	<i>Type</i> <b>T</b> lass window Taut	Comment Status A o_PSE2 is not the correct.		Autoclass	The n This p	ninimum makes s parameter determ	sense, the maximum does n nines the conditions where a	ot. PD is allowed to	deem a class event as
Suggested Chang	dRemedy ge to: "Autoclass	window between Tauto_PSE	1 and Tauto_PS	SE2"	'long'. As so	oon as a class eve	ent exceeds 88ms (= Table	33-10 / T_LCF).	
Response ACCF	PT.	Response Status C			Also s "Type	see 33.3.8: es 3 and 4 PDs w	hich detect a long first Class	s event in the ran	ge of T LCF_PD may"
					Suggeste	dRemedy			
ΕZ					Remo	ove maximum.			
					Response ACCE	9 EPT IN PRINCIPI	Response Status <b>C</b>		
					Insert	text at end of 33	.3.5.2		
					"Type MPS FALS class finger	a 3 and Type 4 PI by measuring the E. If it chooses t finger is longer th is longer than TI	Ds may determine if the PSF e length of the first class ever to implement low MPS, a PE nan TIcf_pd min and shall se cf_pd max."	E they are connect ent. The default v D may set short_r et short_mps to T	cted to supports low ralue for short_mps is nps to TRUE if the first rue if the first class

CI 33	SC 33.3.6	P 109	L <b>30</b>	# 123	C/ 33	SC 33.3.7.6	P 117	L 17	# 125
Yseboodt,	Lennart	Philips			Yseboodt,	, Lennart	Philips		
Comment	Туре Т	Comment Status R		Mutual ID	Comment	Туре Т	Comment Status A		Editorial
"A PD "A PD Type.' What How c	shall identify a P connected to a h does this do ? an it be tested ?	PSE Type as a Type lower or nigher PSE Type than its ow	equal to its own n may identify tha	Type" at PSE as its own	"A Ty follow There	pe 3 or Type 4 Pl ing:" e are no Type 4 P	D that demands Class 5 powers	er levels shall m	eet both of the
Suggested	Remedy				"A Tvi	pe 3 PD that dem	ands Class 5 power levels sl	hall meet both o	f the following:"
Remo	ve sentences ?				Response	) )	Response Status C		i ile lenetilig.
Response RE IEI	ст	Response Status C			ACCE	EPT IN PRINCIPL	E.		
The co	ommenter is invit	ed to resubmit and suggest	alternative text.		Imple	ment suggested	remedy.		
(CIRS	AT)				Add " class	Editor's Note: Ty DS PDs)" on line	pe 4 DS PDs need to be con 16.	sidered for follow	wing text (as do lower
CI 33 Yseboodt,	SC <b>33.3.7.6</b> Lennart	P <b>116</b> Philips	L <b>48</b>	# 124	C/ <b>33</b> Yseboodt,	SC <b>33.2.7.7</b> , Lennart	P <b>87</b> Philips	L <b>38</b>	# 126
Comment "A Typ There	<i>Type</i> <b>T</b> be 2 ,Type 3, and are no Type 4 Pl	Comment Status A Type 4 PD that demand les Ds at Class 5 or lower.	s than Class 5 po	Editorial ower levels shall"	Comment "Figur opera	<i>Type</i> <b>E</b> re 33-14POWER te in 2-pair mode	Comment Status A R_ON state, per pairset opera , Type 3 and Type 4 dual-sig	ating current ten nature PSEs"	Editorial nplates for PSEs that
s/dem	and/demands.				dual-s	signature PSFs =	> Dual-signature PDs.		
Suggested	Remedy				Response	9 9	Response Status C		
"АТур	be 2 or Type 3 PL	D that demands less than Cla	ass 5 power level	Is shall"	ACCE	EPT IN PRINCIPL	E.		
Response ACCE	PT.	Response Status C			OBE	by Lennart's base	line if accepted.		
EZ					C/ <b>33</b> Yseboodt,	SC 33.2.7.7 , Lennart	P <b>88</b> Philips	L <b>26</b>	# 127
					Comment Figure	<i>Type</i> <b>E</b> es 33-14 a and b	Comment Status <b>A</b> have incorrect aspect ratio.		Editorial
					Suggestee Do no	<i>dRemedy</i> ot change aspect	ratio.		
					Response ACCE	e PT.	Response Status C		
					Editor	r to correct aspec	t ratio (don't change aspect r	atio from origina	ıl).

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

Comment ID 127

Page 37 of 71 10/15/2015 4:32:16 PM

C/ 33 SC 33 Yseboodt, Lennart	<b>2.7.7</b> <i>P</i> 88 Philips	L <b>43</b>	# 128	C/ 33 SC 33.3.5.2 Yseboodt, Lennart	e P <b>107</b> Philips	L <b>40</b>	# 131
Comment Type	Comment Status A	IMMIN-2P in rest of	<i>Figure</i> 33-14 f figures	<i>Comment Type</i> <b>E</b> " a Type 2, Type 3 an	Comment Status A d Type 4 PD's pse_power_l	level state variable	<i>Editorial</i> is set to '1.' "
SuggestedRemedy Change to: TLIN Response ACCEPT.	IMIN-2P Response Status C			Period not at end of s SuggestedRemedy " a Type 2, Type 3, ar	entence. nd Type 4 PD's pse_power_	level state variable	is set to '1'. "
Cl 33 SC 33 Yseboodt, Lennart	<b>2.7.7</b> <i>P</i> <b>89</b> Philips	L 36	# 129	Response ACCEPT IN PRINCIF " a Type 2, Type 3, or	Response Status C PLE. Type 4 PD's pse_power_le	evel state variable is	s set to '1'. "
Comment Type I "is the maximun SuggestedRemedy	Comment Status A n power PSE Type power" is strar	nge sentence	Editorial	C/ 33 SC 33.3.5.3 Yseboodt, Lennart	P 108 Philips	L <b>47</b>	# 132
"is the maximun <i>Response</i> ACCEPT. EZ	n power for a given PSE Type" Response Status C			original text: "Please s Wrong ann SuggestedRemedy Please see Annex 33	see Annex 33B for more info ex referenced C for more information on A	ormation on Autocla	ass."
C/ 33 SC 33 Yseboodt, Lennart	<b>3.3.5</b> <i>P</i> <b>102</b> Philips	L 33	# 130	Response ACCEPT.	Response Status C		
Comment Type	Comment Status A		Editorial	EZ			
"Editor's Note: F <i>SuggestedRemedy</i> "Editor's Note: F class event."	D state diagram needs to be upd	ated for Autoclass ated for Autoclass	" and detecting long	Cl 33 SC 33.3.7.5 Yseboodt, Lennart Comment Type E "is the voltage at PSE	P 116 Philips Comment Status A	L 9	# 133 PD Power
Response ACCEPT. EZ	Response Status C			SuggestedRemedy Change to: "is the vol Response ACCEPT.	tage at the PSE PI" Response Status C		
				EZ			

C/ 33 SC 33.3. Yseboodt, Lennart	<b>7.6</b> <i>P</i> <b>116</b> Philips	L <b>38</b>	# 134	C/ <b>33</b> Yseboodt	SC <b>33.3.7.6</b>	P <b>117</b> Philips	L <b>36</b>	# 137
Comment Type E PClass_PD_max r	Comment Status A needs to be subscripted.		Editorial	Comment origin	t Type E al text: "The inj again typo "v	Comment Status A put votage source drives both votage"	PD Modes"	Editorial
SuggestedRemedy Change to subscri	pt			Suggeste Th	edRemedy	urce drives both PD Modes		
Response ACCEPT.	Response Status C			Response ACCI	e mpar vonago oo e EPT.	Response Status C		
EZ				EZ				
C/ 33 SC 33.3. Yseboodt, Lennart	7.6 <i>P</i> 116 Philips	L <b>39</b>	# 135	C/ 33 Yseboodt	SC 33.3.7.8	P 118 Philips	L <b>8</b>	# 138
Comment Type E "A Type 4 PD with input capacitance transients at the P	Comment Status A peak power draw that does not of 360mF or less requires no spe D PI."	exceed PClass PE ecial considrations	<i>Editorial</i> max and has an with regards to	Comment " sh	<i>t Type</i> <b>E</b> nall be valid within	Comment Status A	e 33-18"	Editorial
Typo. SuggestedRemedy				Suggeste " sh	edRemedy nall be valid within	T class as specified in Table	e 33-18"	
"A Type 4 PD with input capacitance transients at the P	peak power draw that does not of 360uF or less requires no spe D PI."	exceed PClass PE cial _consideration	) max and has an ns_ with regards to	Response ACCI	e EPT.	Response Status C		
Response ACCEPT.	Response Status C			EZ				
NonEZ				C/ <b>33</b> Yseboodt	SC <b>33.3.7.9</b> , Lennart	P <b>118</b> Philips	L <b>44</b>	# 139
C/ 33 SC 33.3. Yseboodt, Lennart	<b>7.6</b> <i>P</i> <b>117</b> Philips	L <b>24</b>	# [136	Comment Table Shou	t <i>Type</i> <b>E</b> 9 33-18a, item 3, a	Comment Status A add. info says "See Annex 33/	A,5"	Editorial
Comment Type E original text: "Th typo "vo	Comment Status A ne input votage source drives bot tage"	th PD Modes"	Editorial	Suggeste "See	dRemedy Annex 33A.5"			
SuggestedRemedy " The input voltage	ge source drives both PD Modes	5"		Response ACCI	e EPT.	Response Status C		
Response ACCEPT.	Response Status C			EZ				

ΕZ

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

Cl 33 SC 33.3.8 P1	19 <i>L</i> 31	# 140	C/ 33 SC 33.3.8	P 121	L <b>36</b>	# 143
Yseboodt, Lennart Philips	S		Yseboodt, Lennart	Philips		
Comment Type E Comment Status	Α	Editorial	Comment Type E	Comment Status A		Editorial
"or a PD which does not detect a long first C	Class event,"		Table 33-19a, lowermos Some garbage crept in.	st/rightmost cell contains "by '	'short_mps = TRU	E (T_LCF)"
In this case Class does not need to be capit Occurs on line 31, 34 and 35.	talized.		SuggestedRemedy			
SuggestedRemedy			Replace by short_mps			
"or a PD which does not detect a long first c	class event,"		Response	Response Status C		
Response Response Status	С		ACCEPT.			
ACCEPT.			EZ			
EZ			C/ 33 SC 33.4.3	P 124	L 19	# 144
C/ 33 SC 33.3.8 P1	19 <i>L</i> 34	# 141	Y Seboodt, Lennart	Philips		
Yseboodt, Lennart Philips	s		Comment Type E	Comment Status A	<b>b</b>	Editorial
Comment Type E Comment Status	Α	Editorial	SuggestedRemedy	seems to be misplaced som	ienow.	
Suggested Demody			Not clear where it belon	gs.		
"Type 3 and Type 4 PDs that detect"			Response	Response Status C		
Response Response Status	c		ACCEPT IN PRINCIPLE	Ξ.		
ACCEPT.	0		George to provide instru	ictions.		
EZ			NonEZ			
Cl 33 SC 33.3.8 P1 <sup>-</sup>	19 <i>L</i> 46	# 142	C/ 79 SC 79.3.2.6d	P 15	L <b>22</b>	# 145
rseboodt, Lennart Philips	S		Y Seboodt, Lennart	Philips		
Comment Type E Comment Status original text: "See Annex TBD for PD design Annex TBD referenced.	A guidelines for MPS behavior.	Editorial "	Comment Type E original text: "Table 79-6 Table caption	Comment Status A Sc PD measurements" wrong.		Editorial
SuggestedRemedy Generate it as an empty structure and refere	ence correctly.		SuggestedRemedy Table 79-6d PSE meas	surements		
Response Response Status ACCEPT IN PRINCIPLE.	С		Response ACCEPT.	Response Status C		
Editor to assign next available Annex, create	e the annex and fill it with:		EZ			
"Editor's Note: This Annex to be filled with F	PD design guidelines for MPS.	"				
EZ						

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

Cl 33	SC 33.2.4.7	P 56	L7	# 146	C/ 33	SC 33.3.5	P 105	L 10	# 149
r seboodt,	Lennart	Philips			Y SEDOOD	Lennart	Philips		
Comment State " the bul	<i>Type</i> <b>ER</b> 1-EVENT_CLAS k rename of 1-E <sup>1</sup> red in state nam	Comment Status A S" was renamed to "Single- vent to Single-Event. es.	Event_CLASS", p	PSE SD probably by accident in	Comment Table omit I Next y	<i>Type</i> <b>ER</b> 33-15a says in a DLL support." we have text that	Comment Status A a Table note: "Any PD that is says (or should say, see oth	limited to Class	Editorial 0-3 power levels may
Suggested Revert	Remedy to "1-EVENT_C	LASS".			"Singl Data	e-signature PDs Link Layer classi	not capable of drawing more fication (see 33.6)."	than Class 3 po	ower levels may omit
Response		Response Status <b>C</b>			Slight	ly different state	ment with the same effect, or	the same page	
ACCE	PT.				Suggeste	dRemedy			
EZ					Remo Chang "Singl	ve the text on lir ge Table 33-15a e-signature PDs	ne 46-48. note to: . not capable of drawing more	than Class 3 p	ower levels may omit
CI 33	SC 33.2.6.2	P 76	L <b>4</b>	# 147	Data	Link Layer classi	fication (see 33.6)."		
Yseboodt,	Lennart	Philips			Response	)	Response Status C		
Comment	Type ER	Comment Status A	nature PD shall	" Editorial	ACCE	PT.			
"А Тур	e 3 or Type 4 PS	SE connected to a dual-signation	ature PD shall"		C/ 33	SC 33.3.7.3	P 113	L <b>30</b>	# 150
Suggested	Remedy				Yseboodt	Lennart	Philips		
dual-si	gnature should b	e Dual-signature.			Comment	Type ER	Comment Status A		PD Inrush
Ditto fo	r Single-signatu	re.			origin	al text: "See PSE	E-PD simplified Cport implem	entation model	in Annex TBD."
Response ACCEI	PT.	Response Status C					need an Annex to explain th	is implementation	on issue ?
F7					Suaaeste	dRemedv			
C/ <b>33</b> Yseboodt,	SC 33.2.6.2 Lennart	P <b>77</b> Philips	L 1	# 148	Remo If it re Anne	ove this line. ally needs explait contents.	nation that cannot be done in	33.3.7.3 we sho	ould submit actual
Comment	Type ER	Comment Status A		Editorial	Response	9	Response Status C		
Table 3	3-10 still uses "	1-Event" terminology.			ACCE	PT IN PRINCIP	LE.		
Suggested	Remedy				Remo	ove sentence.			
- Head - Line	e to Single-even er I,2 and 11.	t in:			Yair is	s invited to provid	de figure and new text (no An	nex).	
Response		Response Status C							
ACCE	PT.								
EZ									

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

C/ 33 SC 33.3.8	P 119 Philips	L <b>44</b>	# 151	CI 33 SC Yseboodt Lenna	33.1.4	P <b>30</b> Philips	L <b>24</b>	# 154
Comment Type ER "Editor's Note: To add li	Comment Status <b>A</b> ne for Type 1 and Type 2 dua	I-signature."	Editorial	Comment Type DC loop resis	E stance valu	Comment Status A es are not centered in Y-axi	is of cell.	Editorial
I don't think we want to a SuggestedRemedy	describe the behaviour of Typ	e 1/Type 2 dual	-signature.	SuggestedRemer Center value	dy s.			
Remove editors note.				Response		Response Status C		
Response ACCEPT.	Response Status C			ACCEPT. EZ				
<i>Cl</i> <b>33</b> <i>SC</i> <b>33.3.8</b> Yseboodt, Lennart	P 119 Philips	L <b>50</b>	# 152	Cl <b>33</b> SC Yseboodt, Lenna	<b>33.2.4.7</b> rt	P <b>65</b> Philips	L <b>3</b>	# 155
Comment Type ER "A PD that does not ma removed"	Comment Status A intain the MPS components n	nentioned above	MPS may have its power	Comment Type Editors note	E on the state	Comment Status A e diagram.		Editorial
Reference by relative pl	oveical location in the draft pro	hahlv a had ide	3	SuggestedReme Append	dy			
SuggestedRemedv			a.	"State diagra	m for Type	3 and 4 does not address of	dual-signature. P	referably this goes into
"A PD that does not ma	intain the MPS components ir	section 33.3.8	may have its power	Response	agram to k	Response Status C	<del>.</del>	
removed"	Desmanas Status			ACCEPT.				
ACCEPT IN PRINCIPLE	E.			EZ				
Move sentence to secor "A PD that does not ma	nd sentence of 33.3.8 changir intain a valid MPS may have i	g it to: ts power remove	ed"	CI 33 SC Yseboodt, Lenna	<b>33.2.5.0a</b> rt	P <b>66</b> Philips	L 9	# 156
C/ 33D SC 33D.1	P <b>4</b>	L <b>1</b>	# 153	Comment Type	Е	Comment Status A		Editorial
Yseboodt, Lennart	Philips			"While the ex	act methor	d of the connection check is	left to the imple	menter, the PSE
Comment Type ER	Comment Status A		Annex	Shan				
Table 33D-2 on dual sig event for DS PDs.	nature classification has a CL	ASS_EV5 colur	nn. There is no 5th	Implementati specifically h	on is alway ere.	s decoupled from the speci	fication. No need	d to call this out
SuggestedRemedy				SuggestedReme	dy			
Remove CLASS_EV5 c	olumn.			"During conn	ection chee	ck, the PSE shall"		
Response ACCEPT.	Response Status C			Response ACCEPT IN	PRINCIPLE	Response Status <b>C</b>		
EZ				"The exact m PSE shall"	ethod of th	e connection check is not s	pecified. During	connection check the

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

Comment ID 156

Cl 33 SC 33.2.5.0a	a P 66	L <b>26</b>	# 157	C/ 33	SC 33.2.6.2	P 74	L <b>44</b>	# 160
Yseboodt, Lennart	Philips			Yseboodt,	Lennart	Philips		
Comment Type E Table 33-3a, Items 1 a	Comment Status A and 2, Max value is 0.40		Editorial	Comment Iclass	<i>Type</i> <b>E</b> is smaller letters	Comment Status A than normal subscript.		Editorial
Convention seems to I SuggestedRemedy Replace 0.40 by 0.400	be to use 3 digits after the dot.			Suggested Chang	IRemedy ge the subscript to	o a larger font		
Response ACCEPT.	Response Status C			Response ACCE F7	PT.	Response Status C		
EZ								
Cl 33 SC 33.2.6	P 71 Philips	L 14	# 158	C/ 33 Yseboodt,	SC 33.2.6.2 Lennart	P <b>75</b> Philips	L 16	# 161
Comment Type E The Pclass formula 33	Comment Status A 3-3 and the parameter description	on have a Autocl	<i>Editorial</i> ass paragraph in	<i>Comment</i> " as Missin	<i>Type</i> <b>E</b> defined in Table g dot after 33-10	Comment Status <b>A</b> 33-10 The timing specification	. "	Editorial
SuggestedRemedy Reconnect Formula ar	nd parameter description.			Suggested Add de	<i>IRemedy</i> ot (period)			
Response ACCEPT.	Response Status C			Response ACCE	PT.	Response Status C		
F7				EZ				
C/ 33 SC 33.2.6.2	P74	L <b>37</b>	# 159	C/ <b>33</b> Yseboodt,	SC <b>33.2.7</b> Lennart	P <b>78</b> Philips	L <b>51</b>	# 162
Yseboodt, Lennart	Philips			Comment	Туре Е	Comment Status A		Editorial
Comment Type E	Comment Status A	d 2 mark avanta	Editorial	"Table	33-11 limits sho	w values that support worst-case	e operating limits."	
provide a maximum of of 5Class and 5 mark	4 Class and 4 mark events. Ty events."	pe 4 PSEs shall	provide a maximum	Suggested "Table	<i>IRemedy</i> 33-11 limit value	s support operation under wors	t-case operating co	onditions."
Capitalization gone wr	ong.			Response		Response Status C		
SuggestedRemedy	C C			ACCE	PT.			
"Type 2 PSEs shall proprovide a maximum of of 5 class and 5 mark	ovide a maximum of 2 class and 4 class and 4 mark events. Typevents."	d 2 mark events. be 4 PSEs shall	Type 3 PSEs shall provide a maximum	EZ				
Response	Response Status C							
ACCEPT.								
EZ								
TVDE: TR/technical requir	ed ER/editorial required CR/ac	peral required	T/technical E/editorial G/a	eneral		Comment	ID 162	Page /3 of 71

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

C/ 33	SC 33.2.7	P 82	L <b>30</b>	# 163	C/ 30	SC 30.9.1.1.6	P <b>7</b>	L <b>53</b>	# 165
Yseboodt, I	_ennart	Philips			Yseboodt, Lei	nnart	Philips		
Comment 7	Гуре Е	Comment Status D		PSE Power	Comment Typ	pe T	Comment Status A		Management
Figure( As sucl that, bu should	s) 33-14 descrit h, these Figures it be placed right	be the required current of do not belong in the sh after Table 33-11.	apabilities and the co ort-circuit section, the	urrent limits of a PSE. eir scope is beyond	original te 4 PD"	ext: "An ENUMI bt classes mis	ERATED VALUE that has o	one of the follow	ving entries: Class 0 to
Suggestedl	Remedy				Append to	n list:			
Move F	igure 33-14, 33	-14a and 33-14b right at	fter Table 33-11.		Appendit	class5Class 5	PD		
Proposed F REJEC	Response CT.	Response Status Z				class6Class 6 class7Class 7 class8Class 8	PD PD PD		
This co	mment was WI	THDRAWN by the comr	nenter.			Add editors no	ote: "Dual signature also ne	eds to be addre	essed here".
C/ 30 Yseboodt, I	SC <b>30.9.1.1.</b> 4	4 P 7 Philips	L <b>1</b>	# [164	Response ACCEPT	IN PRINCIPLE	Response Status <b>C</b>		
original and B I <i>SuggestedI</i> Amend	text: "An ENUN isted" 4 pair pinout Remedy to list:	MERATED VALUE that f	has one of the followi	ng entries: Pinout A	"Editor's f updated v to beginn	Note (to be rem when Clause 3 ing of Clause 3	noved before working group 3 and 79 are stable." 30.	ballot): Clause	30 to be reviewed and
Resnonse	DOIN	Response Status C			Yseboodt, Lei	nnart	Philips	215	# 100
ACCEF	PT IN PRINCIPL	E.			Comment Tv	pe T	Comment Status A		Management
OBE by	y comment 7.				original te PSE or a The seco set this bi	ext: "BIT STRIN "A GET attribu PD and wheth nd bit indicates it to indicate a	IG [SIZE (2)]" ute that returns a bit string i er it is Type 1 or Type 2. TI s PSE or PD. A PSE shall s PD.;"	ndicating wheth ne first bit indica set this bit to ind	er the local system is a tes Type 1 or Type 2. icate a PSE. A PD shall
					SuggestedRe "BIT STR "A GET a PD and w Type 2, T indicate a	emedy ING [SIZE (3)] Ittribute that ret whether it is Typ Type 3 or Type a PSE. A PD sh	" urns a bit string indicating y be 1, Type 2, Type 3 or Typ 4. The third bit indicates P nall set this bit to indicate a	whether the loca e 4. The first tw SE or PD. A PS PD.;"	al system is a PSE or a o bits indicate Type 1, E shall set this bit to
					Response		Response Status C		
					ACCEPT	IN PRINCIPLE	E		
					OBE by 1	65			

Comment ID 166

C/ 30 SC 30.12.2 Yseboodt, Lennart	.1.18a P 15 Philips	L 44	# 167	C/ <b>30</b> Yseboodt,	SC 30.12.2	2.1.18c	P <b>16</b> Philips	L 14	# 169
Comment Type <b>T</b> original text: "The PD where x is the decima This calcula	Comment Status A measured voltage value is e al value of aLldpXdot3LocPDI ation is actually in Table 79-6	ncoded according deasuredVoltage	<i>Editorial</i> to Equation (79-x), Value."	Comment origina where	<i>Type</i> <b>T</b> al text: "The PS x is the decim This calcu	Comm E measured al value of a lation is actu	ent Status <b>A</b> I voltage value is e LldpXdot3LocPSE ally in Table 79-60	encoded accordir MeasuredVoltag	<i>Editorial</i> ng to Equation (79-x), eValue"
SuggestedRemedy				Suggested	dRemedy				
"The PD measured ve of bits is aLldpXdot3L	oltage value is encoded acco _ocPDMeasuredVoltageValue	rding to Table 79- "	6c, the decimal value	"The F of bits	PSE measured is aLldpXdot3	voltage valu LocPSEMea	ie is encoded acco suredVoltageValu	ording to Table 79 e"	9-6d, the decimal value
Response ACCEPT. EZ	Response Status C			Response ACCE EZ	PT.	Respon	se Status C		
C/ 30 SC 30.12.2 Yseboodt, Lennart	.1.18b P 16 Philips	L <b>2</b>	# 168	C/ <b>30</b> Yseboodt,	SC 30.12.2	2.1.18d	P <b>16</b> Philips	L <b>26</b>	# 170
Comment Type <b>T</b> original text: "The PD where x is the decima This calcul	Comment Status A measured current value is en al value of aLldpXdot3LocPDI ation is actually in Table 79-6	ncoded according MeasuredCurrent <sup>v</sup> c.	<i>Editorial</i> to Equation (79-x), Value"	Comment origina where	<i>Type</i> <b>T</b> al text: "The PS x is the decim This calcu	Comm E measured al value of a lation is actu	ent Status <b>A</b> I voltage value is e LldpXdot3LocPSE ally in Table 79-60	encoded accordir MeasuredCurren	<i>Editorial</i> ng to Equation (79-x), ntValue"
SuggestedRemedy "The PD measured c of bits is aLldpXdot3L	urrent value is encoded acco _ocPDMeasuredCurrentValue	ding to Table 79-	6c, the decimal value	Suggested "The F of bits	dRemedy PSE measured is aLldpXdot3	voltage valu LocPSEMea	le is encoded acco suredCurrentValue	ording to Table 79	9-6d, the decimal value
Response ACCEPT.	Response Status C			Response ACCE	PT.	Respon	se Status C		
EZ				EZ					

C/ 30 SC 30.12.3.1.14 P 23	3 L 4	# 171	C/ 33 S	SC 33.2.4.6	P 53	L 33	# 173		
Yseboodt, Lennart Philips	3		Yseboodt, Len	nart	Philips				
Comment Type T Comment Status original text: "BIT STRING [SIZE (2)] BEHAVIOUR DEFINED AS: A GET attribute that returns a bit string indic PD and whether it is Type 1 or Type 2. The t bit indicates PSE or PD "	A ating whether the remo	<i>Management</i> te system is a PSE or a 1 or Type 2. The second	Comment Type "When a F " the PS	e <b>TR</b> PSE powers a E shall meet Yes, this par	Comment Status A a PD of lower Type (Type PE the PI electrical requirement agraph again.	0 ) than its own' ts of the PD Type	PSE SD		
Add new types SuggestedRemedy "BIT STRING [SIZE (3)]"			powering of Type 1/2 PDs. We have made a lot of changes to parameters for Type 3 and Type 4, it would be impractical for a Type 3/4 PSE to morph into a Type 1/2 PSE. SuggestedRemedy						
"A GET attribute that returns a bit string indi- a PD and whether it is Type 1, Type 2, Type Type 2, Type 3 or Type 4. The third bit indice Response Response Status	cating whether the rem 3 or Type 4. The first f ates PSE or PD.;"	ote system is a PSE or wo bits indicate Type 1,	Revert this paragraph to the 802.3-2012 version, which only says what a Type 2 PSE n do. If there are specific interoperability issues between Type 3/4 and Type 1/2, we deal with those						
ACCEPT IN PRINCIPLE. OBE by 165.	•		separately <i>Response</i> ACCEPT.	<u>.</u>	Response Status C				
C/ 33SC 33.2.4.4P 48Yseboodt, LennartPhilips	3 L 39	# 172	CI 33 S	SC 33.2.4.7 nart	P <b>64</b> Philips	L 14	# 174		
Comment Type <b>TR</b> Comment Status "pse_skips_multiclass: The PSE can choose to bypass a portion of set in an implementation-dependent manner Only applies to Type 2 PSEs that support DI	A the classification state ."	PSE SD flow. A variable that is	Comment Type TR Comment Status A Figure 33-9d, Transition from CLASS_EV1_LCF to MARK_EV1: "tlcf_timer_done * !pse_skips_multiclass *" pse_skips_multiclass does not apply to Type 3 or Type 4 PSEs.						
SuggestedRemedy "pse_skips_multiclass: A Type 2 PSE can choose to bypass a portion that is set in an implementation-dependent r	on of the classification nanner."	state flow. A variable	SuggestedRer XX=remov "tlcf_timer Response	nedy /e _done * XX!p	ose_skips_multiclass *XX" <i>Response Status</i> <b>C</b>				
Response Response Status ACCEPT. EZ	c		ACCEPT. Dave A. to	implement.					

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

C/ 33 SC 33. Yseboodt Lennart	2.6 P 70 Philips	L <b>29</b>	# 175	CI <b>33</b> Yseboodt	SC Lennar	33.2.7.4 †	P <b>84</b> Philips	L <b>1</b>	# 178
Comment Type T This section nee	<b>R</b> Comment Status <b>A</b> ds to be made consistent with the r	new Figures 33-14.	Pres: Yseboodt1	Comment origina a pairs	<i>Type</i> al text: " set that	<b>TR</b> When cor a PSE ha	Comment Status A nected to a dual-signature P s to support."	D, Icon-TBD	Pres: Darshan3 is the minimum current of
Suggesteurkernedy	weeheedt 1 1015 baseline fig23	14 vXX ndf			0.0		D in voriable name		
		14_VXX.pui		0	Gei		D in variable name.		
				Suggested	resenta	iy tion veebo	odt 1 1015 baseline fig331	4 vXX pdf	
ACCEPTINER	NOIF LE.			Boononoo	ieseina	lion ysebu		4_v/X.pui	
Adopt changes in	n yseboodt_1_1015_fig3314_v233.	pdf		ACCE			Response Status C		
CI 33 SC 33. Yseboodt, Lennart	2.6 P 72 Philips	L 1	# 176	OBE t	oy 175.		<b>L</b> .		
Comment Type T Table 33-7 does	R Comment Status A not provide dual-signature classes		Pres: Yseboodt337	CI 33 Yseboodt,	SC Lennar	<b>33.3.2</b> t	P <b>96</b> Philips	L <b>42</b>	# 179
SuggestedRemedy				Comment	Туре	TR	Comment Status A		PD Class
See yseboodt_ta Response	ble_33_7_v1XX.pdf Response Status C			"Type impler Event	3/SS P ment a r Class s	Ds operati minimum o signature o	ing up to a maximum power of of Single-Event Physical Laye of 1,2, or 3."	draw corresp er Classificat	onding to Class 3 or less ion and advertise a Single-
OBE by 65				Only 1 Repla	Гуре 1 F ce Sing	PDs perfor le-Event c	m Single-Event classification lassification => Multiple-Ever	nt classificati	on
CI 33 SC 33	262 P76	/ 16	# 177	Suggested	dRemec	ły			
Yseboodt, Lennart	Philips	210	π	"Type impler	3/SS P ment a r	Ds operati minimum o	ing up to a maximum power of Multiple-Event Physical La	draw corresp yer Classifica	onding to Class 3 or less ation and advertise a
Comment Type T	R Comment Status A		PSE Class	Class	signatu	re of 1,2, o	or 3."	·	
Table 33-9 show This was true for	s a direct link between class currer af/at, but this is more complicated	nts and "Class". now.		Response ACCE	PT.		Response Status <b>C</b>		
The PSE section	does not have a Table 33-16a equ	uivalent. This shoul	d still be done.	F7					
SuggestedRemedy				LZ					
Change "Class"	to "class signature" in Table 33-9								
Response	Response Status C								
ACCEPT.	-								

C/ 33	SC 33.3.5	P 105	L <b>46</b>	# 180	CI 33	SC 33.3.5.3	P 109	L <b>1</b>	# 182
Yseboodt, I	Lennart	Philips			Yseboodt, L	ennart	Philips		
Comment 7	Type <b>TR</b>	Comment Status A		PD Class	Comment T	ype TR	Comment Status A		Autoclass
"PD's c Link La	of all Types not c ayer classification	apable of drawing more that n (see 33.6)."	n Class 3 power l	evels may omit Data	"After po through	ower up, a PD i out the period b	mplementing Autoclass sha	ll draw its highe	st required power
Only tru	ue for SS PDs. [	DS PDs always need to supp	oort DLL + spell fi	х.	This sta	tement may lea	ad the reader to believe that	a PD using Aut	oclass is not subject to
Suggested	Remedy				Suggested	emedu	i it isj.		
"Single Data Li	-signature PDs i nk Layer classifi	not capable of drawing more cation (see 33.6)."	e than Class 3 pov	wer levels may omit	"After po subject	ower up, a PD i to the requirem	mplementing Autoclass sha ents on Pclass pd in 33.3.7	II draw its highe .2, throughout t	st required power, he period bounded by"
Possib	ly OBE by previo	ous comment. (149)			Response		Response Status <b>C</b>		
Response		Response Status C			, ACCEP	т.			
ACCEF	PT IN PRINCIPL	E.			CL 22	SC 22 2 7	D 110	/ 27	# 192
OBE by	y 149.				Yseboodt, L	ennart	Philips	L <b>Z I</b>	# 105
Cl 33 Yseboodt, I Comment 7 Table 3 change Suggested Change Response ACCEF	SC 33.3.5.3 Lennart Type TR 33-17a, Item 3, A es in PSE section Remedy e T_auto_pd2 fro	P 109 Philips Comment Status A Autoclass power draw end tim in made to D1.3. Dom 3.28 to 3.65 seconds. Response Status C	L 19 me needs to be u	# 181 Autoclass pdated to reflect	Comment T Table 3 The valu Recalcu SuggestedF Change Response ACCEP EZ	ype <b>TR</b> 3-18, Item 1, Pl ues for Class 5, Ilating this resu <i>Remedy</i> Item 1, row Cl T.	Comment Status A D input voltage. /DS and Class 8 are differen lts in 41.1826V. ass 5/DS to 41.2V. Response Status C	t. They must be	PD Power
EZ					CI 33 Yseboodt, L Comment T Table 3 How or	SC <b>33.3.7.9</b> ennart <i>ype</i> <b>TR</b> 3-18a, item 4, F	P 118 Philips Comment Status A PD Power has value "Set to r	L 46	# 184 Pres: Darshan1 s Class".
					Suggested F	emedy		a controllable p	arameter in most PDS.
					Remove	e item 4, perhaj es maximum p	os add to the text that the PE ower where applicable.	) should be put	in a mode where it
					Response		Response Status C		
					ACCEP	T IN PRINCIPL	.E.		
					Adopt c	hanges shown	on page 11 of darshan_01_	1015_Rev001.p	df

Comment ID 184

Page 48 of 71 10/15/2015 4:32:17 PM

C/ 33         SC 33.3.8         P 119         L 27         # 185           Yseboodt, Lennart         Philips         Philips	C/ 33         SC 33.6         P 141         L 11         # 187           Yseboodt, Lennart         Philips				
Comment Type TR Comment Status A MPS	Comment Type TR Comment Status A DLL				
"In order to maintain power, the PD shall provide a valid Maintain Power Signature (MPS) at the PI."	"Type 2, Type 3 and Type 4 PDs that require more than 13.0 W support Data Link Layer classification (see 33.3.5). Data Link Layer classification is optional for all other devices."				
This language prohibits NOT showing MPS if the goal is to become unpowered.					
SuggestedRemedy	Dual-signature PDs must support DLL regardless of power consumption.				
"A PD that requires power from the PI shall provide a valid Maintain Power Signature	SuggestedRemedy				
(MPS) at the PI." This makes the 'shall' conditional upon needing power or not.	"Type 2, Type 3, and Type 4 PDs that require more than Class 3 power levels, or Type 3/DS and Type 4/DS PDs support Data Link Layer classification (see 33.3.5). Data Link				
Response Response Status C	Layer classification is optional for all other devices.				
ACCEPT.	Response Response Status C				
	ACCEPT.				
C/ 33 SC 33.3.8 P119 L 41 # 186	CI 33 SC 33 3 5 1 D 106 I 30 # 199				
Yseboodt, Lennart Philips	Veeboodt Lennart Philips				
Comment Type TR Comment Status A MPS					
"PDs using Autoclass shall use the I port_MPS associated with the PD Class advertised during Physical Layer classification."	Comment Type TR Comment Status A PD Cl The Type 3 specific Class 0 signature current was removed from Table 33-16. While Class 0 no longer exists for Type 3, the Class signature '0' still does.				
The PSE MPS rules are determined by the Class assigned to the PD, not what it	SuggestedRemedy				
advertized. Example: A Class 5/Autoclass PD, that gets power demoted to Class 4, gets to use Class	Restore missing Type 3 specific Class 0 signature from D1.2.				
4 MPS rules.	Response Posponso Status C				
SuggestedRemedy	ACCEPT.				
"PDs using Autoclass shall use the I port_MPS associated with the PD Class assigned by the PSE during Physical Layer classification."	EZ				
Response Response Status C	Why was it removed?				
ACCEPT.	wity was it removed?				

CI <b>33</b>	SC 33.3.5.3	P 108	L <b>50</b>	# 189	C/ 1	SC 1.4	P <b>20</b>	L <b>32</b>	# 191
Yseboodt, I	_ennart	Philips			Dove, Dan	iel	Dove Network	king Solut	
Comment 1	Type <b>TR</b> Co	mment Status A		Autoclass	Comment	Type <b>TR</b>	Comment Status A		Definitions
"A PD i in Table CLASS	mplementing Autocla e 33-17a), resulting in 5_EV1."	ss shall remove its clas a classification signatu	sification curren re of '0' for the r	t at T ACS (as defined emainder of	Definit specifi clear v Type 2	ion of Single S c types. Since vhether this sh 2 PDs.	ingature PD doesn't clarify if it Type 1 and 2 PDs were never ould only apply to Type 3 and ⊺	applies to all typ distinguished by Гуре 4, or we ret	bes of PDs, or only / signature type, I'm not tro-define Type 1 and
Contra	diction since classifica	tion signature of '0' is b	etween 1mA ar	d 4mA.	Suggested	IRemedy			
Suggested	Remedy				Task F	Force decide w	hich types of PDs will identify a	as single-signatu	ire PDs and change as
"A PD i	mplementing Autocla	ss shall reduce its class	ification current	at T ACS (as defined	neces	sary.			
CLASS	EV1."	a classification signatu			Response		Response Status C		
Response	Res	sponse Status <b>C</b>			ACCE	PT IN PRINCI	PLE.		
ACCEF	PT IN PRINCIPLE.				Chang	e Definitions ir	n 1.4 to:		
OBE by	y 53.				Single	-signature: A p	roperty of a PD where it shares	s the same dete	ction signature,
C/ 1	SC 1.4	P <b>20</b>	L 30	# 190	power	signature betv	re, and maintain veen both pairsets (see IEEE 8	02.3, Clause 33	).
Dove, Dani	el	Dove Network	ing Solut						, , ,, , ,
Comment 7 Link to	<i>Type</i> <b>ER</b> Co 33.2.3 not valid	mment Status A		Editorial	Dual-s classif power	ication signatu signatures on	res, and maintain each pairset (see IEEE 802.3,	Clause 33).	tection signatures,
Suggested	Remedy				C/ 1	SC 1.4	P <b>20</b>	L 34	# 192
Add a ł	nyperlink				Dove, Dan	iel	Dove Network	king Solut	
Response	Res	sponse Status C			Comment	Type <b>TR</b>	Comment Status A		Definitions
ACCEF EZ	РТ.				Definit specifi clear v Type 2	ion of Dual Sir c types. Since vhether this sh 2 PDs.	ngature PD doesn't clarify if it a Type 1 and 2 PDs were never ould only apply to Type 3 and ⊺	pplies to all type distinguished by Type 4, or we ret	s of PDs, or only / signature type, I'm not tro-define Type 1 and
					Suggested	IRemedy			
					Task F	Force decide w sary. Is such a	hich types of PDs will identify a change within scope of PAR/o	as dual-signature bjectives/Criteria	e PDs and change as a?
					Response		Response Status C		
					ACCE	PT IN PRINCI	PLE.		
					OBE b	y 191.			

C/ <b>25</b> Dove, Dan	SC <b>25.4.7</b> iel	P <b>25</b> Dove N	L <b>43</b> letworking Solut	# 193		C/ <b>33</b> Dove, Dar	SC niel	33.2.3	P <b>41</b> Dove Netwo	L <b>36</b> orking Solut	# 196
Comment Text s	<i>Type</i> <b>TR</b> ays Type 2, but	Comment Status earlier reference (pg 2-	A 4, line 1) states "Type	2 or greater".	PMD	Comment I don't	<i>Type</i> t think th	TR nis statem	Comment Status A ent is explicit enough	J	Types
Suggested add th	<i>IRemedy</i> e words "or gre	ater" behind the words	"Type 2" twice in this	paragraph.		Suggested replac	dRemec e "use"	<i>ly</i> with "use	only the"		
Response ACCE	PT.	Response Status	С			Response ACCE	PT.		Response Status C		
EZ						EZ					
<i>CI</i> <b>30</b> Dove, Dan	SC 30.12.2. iel	1.18a P 15 Dove N	L 38 Ietworking Solut	# 194		C/ <b>33</b> Dove, Dar	SC niel	33.2.4.1	P <b>42</b> Dove Netwo	L <b>27</b> orking Solut	# 197
Comment Type       TR       Comment Status       A       Management         For these new variables, I could not find a tolerance spec. Should there be one?         SuggestedRemedy         If so, please include a tolerance on the accuracy of the values provided.         Response       Response Status       C						Comment I think of 4P Suggestee Repla	<i>Type</i> this set powerin <i>dRemec</i> ce "PSE	TR ntence on ig PSE? E fy E" with "T	Comment Status R ly applies to Type 1 and Ty example: CC finds DS PD, ype 1 or Type 2 PSE"	/pe 2 PSEs. Does Seq 0, starts both	PSE SD this apply for the case detections at once.
ACCE This is No cha	PT IN PRINCIF protocol, accu anges to the dra	LE. racy is not specified. aft result from accepting	this comment.			Response REJE I'm no on Alt should	CT. t sure th B, it co	nis is true. uld be bec	Response Status <b>C</b> . If a 4P PSE sees DS and cause there is a 2-Pair Mid letection within Tobo	l gets an invalid si span PSE on Alt I	g on Alt A and an open 3.  The Alt A PSE
<i>CI</i> 33 Dove, Dan	SC 33.1.4 iel	P <b>30</b> Dove N	L <b>41</b> Ietworking Solut	# 195		TFTD					
Comment Note 2	<i>Type</i> <b>TR</b> should only ap	Comment Status	<b>R</b> 4 pair operation. This	Un note doesn't clarif	<i>balance</i> y that						
Suggested In Typ	<i>IRemedy</i> e 3 and Type 4	operation, (when opera	ting on all 4 pairs) the	9							
Response REJE	CT.	Response Status	С								
The no	ote simply point ation.	s them to the unbalanc	e section which clearl	y contains this							

C/ 33 SC 33.2.4	.3 P 42	L 53	# 198	C/ 33	SC 33.2.4.4	P 43	L 38	# 200
Dove, Daniel	Dove Networ	rking Solut		Dove, Dan	iel	Dove Netwo	orking Solut	
Comment Type TR	Comment Status A		Pres: Bullock1	Comment	Туре Е	Comment Status A		PSE SD
A cost improvemen sequence rather that	t is possible if detection for dua in simultaneously.	I-signature PDs	can be performed in	The te explici	ext is not comple t.	tely clear on how the negotia	ation takes place.	Its implicit, but not
SuggestedRemedy				Suggested	Remedy			
See state diagram of this in his presentat	hanges in bullock_01_3bt_101 ion.	5 for detail, as I	believe Chris addresses	insert Response	via L2 classifica	ation" at the end of both lines	8	
Response	Response Status C							
ACCEPT IN PRINC	IPLE.			AUGE		LL.		
Adopt changes sho	wn in Bullock 01 1015 rev 2r	odf on nages 7-1	А	insert	"via Data Link La	ayer classification" at the en	d of both lines	
Adopt changes sho	withit Bullock_01_1013_10v_2.	bui on pages 7-1	т.	C/ 33	SC 33.2.4.4	P <b>43</b>	L <b>43</b>	# 201
Add "Editor's Note:	Chris/Dylan to update SD to in	clude Primary/S	econdary alternatives,	Dove, Dan	iel	Dove Netwo	orking Solut	
states at once, no n	ested ifs, no soft connects on t	he same page."		Comment	Туре Е	Comment Status A		Pres: Bullock1
	A D 42	/ 47	# 400	Minor	editorial sugges	tion.		
Dove Daniel	.4 F 43 Dove Netwo	L II	# 199	Suggested	Remedy			
Comment Tune TD	Commont Status	King Colut	Drost Pulloaki	Insert	"to be" between	"is" and "2-pair"		
There are a number	Comment Status A	in text one way	PIES. BUIJOCK I	Response		Response Status C		
Diagram in another	way.	in text one way,		ACCE	PT.			
SuggestedRemedy					<u> </u>	D 40		# 000
Editor review & reco alt_a_pwrd (diagram	ncile all variables in text with d າ)	iagram. Example	es; Alt_A_pwrd (text)	Dove, Dan	iel	P 43 Dove Netwo	L 44 orking Solut	# 202
Response ACCEPT IN PRINC	Response Status <b>C</b> IPLE.			<i>Comment</i> Minor	<i>Type</i> <b>E</b> editorial suggest	Comment Status A tion.		Pres: Bullock1
Variable section to	be updated to match State Diag	gram for Noveml	per presentation.	Suggested Insert	<i>Remedy</i> "to be" between	"is" and "4-pair"		
				Response ACCE	PT.	Response Status C		

C/ 33	SC 33.2.4.4	P <b>44</b>	L <b>24</b>	# 203	CI 33	SC :	33.2.4.4	P <b>45</b>	L <b>2</b>	# 206
Dove, Daniel	I	Dove Network	ing Solut		Dove, Dar	niel		Dove Networki	ng Solut	
Comment Ty pwr_app declared but the v and Type	pe <b>TR</b> b_a is a variable d as only applyir variable list is si e 4, and commo	Comment Status <b>A</b> only used by the Type 3 an ong to them. This raises a ger ngular. Should we break out on variables? Or leave them	d Type 4 state of heral question s Type 1 and Typ all mixed up?	<i>PSE SD</i> diagram. Should it be ince there are two SDs be 2 variables, Type 3	Comment The te Suggestee Repla	<i>Type</i> ext in this d <i>Remed</i> ce "POV	TR s sentence y VER_UP[A	Comment Status R is incomplete or inaccurate. A]" with "the POWER_UP[A]	or IDLE[A] sta	Pres: Bullock1
SuggestedRe I will leav	<i>emedy</i> ve this to the Ta	ask Force to decide. It affect	s a number of v	ariables.	Response REJE	CT.		Response Status C		
Response ACCEP1	T IN PRINCIPLI	Response Status <b>C</b> E.			<i>CI</i> <b>33</b> Dove, Dar	SC : niel	33.2.4.4	P <b>45</b> Dove Networki	L <b>5</b> ng Solut	# 207
Chris to	update variable	section(s) for November pro	esentation.		Comment	Туре	Е	Comment Status A		Pres: Bullock1
Cl <b>33</b> Dove, Daniel Comment Ty The text	SC 33.2.4.4 I /pe TR in this sentenc	P 44 Dove Network <i>Comment Status</i> R e is incomplete or inaccurate	L <b>54</b> ing Solut	# 204 Pres: Bullock1	The s altern <i>Suggeste</i> e replac betwe	entence ative. d <i>Remed</i> ce with "t	reads unc y to the Alter	learly. It is a state machine t mative A State Machine that	hat is being c the Alternativ	ommunicated with not an re B State Machine is
SuggestedRe Replace	e <i>medy</i> POWER_UP[	A]" with "the POWER_UP[A	or IDLE[A] sta	es.	Response ACCE	e PT IN P	RINCIPLE	Response Status <b>C</b>		
Response REJECT	г.	Response Status C			Varial prese	ole text to ntation.	o be updat	ted so that new changes use	suggest lang	uage for November
Cl 33 Dove, Daniel	SC <b>33.2.4.4</b>	P <b>45</b> Dove Network	L 1 ing Solut	# 205	C/ <b>33</b> Dove, Dar	SC : niel	33.2.4.4	P <b>45</b> Dove Networki	L <b>7</b> ng Solut	# 208
Comment Ty The text	/pe TR in this sentence	Comment Status R e is incomplete or inaccurate	).	Pres: Bullock1	Comment The te	<i>Type</i> ext in this	TR s sentence	Comment Status R e is incomplete or inaccurate.		Pres: Bullock1
SuggestedRe Replace	emedy POWER_UP[	A]" with "the POWER_UP[A	or IDLE[A] sta	es.	S <i>uggeste</i> e Repla	dRemed ce "POV	y VER_UP[/	A]" with "the POWER_UP[A]	or IDLE[A] sta	ates.
Response REJECT	г.	Response Status C			Response REJE	CT.		Response Status C		

Cl 33         SC 33.2.4.4         P 45         L 8         # 209           Dove, Daniel         Dove Networking Solut	C/ 33         SC 33.2.4.4         P 48         L 23         # 212           Dove, Daniel         Dove Networking Solut
Comment Type       TR       Comment Status       R       Pres:         The text in this sentence is incomplete or inaccurate.       SuggestedRemedy       Pres:       Pres:         Replace "POWER_UP[B]" with "the POWER_UP[B] or IDLE[B] states.       Pres:       Pres:       Pres:	3ullock1 Comment Type ER Comment Status A PSE SD A variable cannot probe. SuggestedRemedy replace "probe" with "indicate that the PSE is ready to probe"
Response Response Status C REJECT.	Response Response Status C ACCEPT IN PRINCIPLE.
Cl 33 SC 33.2.4.4 P 47 L 31 # 210 Dove, Daniel Dove Networking Solut	Chris to implement for November presentation. Type 1/2 version cannot change.
The text in this sentence is incomplete or inaccurate.	Type 3/4 version: implement suggested remedy.
SuggestedRemedy Replace PSE with "A Type 1 or Type 2 PSE" since Type 3 and Type 4 use pwr_ap	C/ 33         SC 33.2.4.4         P 48         L 46         # 213           _a/b?         Dove, Daniel         Dove Networking Solut
Response Response Status C ACCEPT.	Comment Type     TR     Comment Status     A     PSE SD       The text is not completely clear
Cl 33       SC 33.2.4.4       P 48       L 16       # 211         Dove, Daniel       Dove Networking Solut       Dove Networking Solut         Comment Type       TR       Comment Status D         While this was not changed from 802.3at, it appears that the definition of the values both True and False are incorrect. They appear to be values for pse_dll_enabled rates that prese_dll_enabled	SuggestedRemedy         replace "for Tlim within" with "for a time TLIM determined by"         PSE SD       Response         for         ner       replace "for Tlim within" with "for a time TLIM-2p determined by"
SuggestedRemedy Insert correct definitions.	C/ 33     SC 33.2.4.7     P 57     L 27     # 214       Dove, Daniel     Dove Networking Solut
Proposed Response Response Status Z REJECT.	Comment Type       TR       Comment Status       A       Pres: Bullock1         It will enable lower cost implementations if we allow staggering of detection for the dual- signature cases. Please see attached presentation.       Pres: Bullock1
This comment was WITHDRAWN by the commenter.	SuggestedRemedy         See state diagram changes in bullock_01_3bt_1015 for detail, as I believe Chris addresses this in his presentation.         Response       Response Status         C         ACCEPT IN PRINCIPLE.         OBE by adoption of Bullock1

Cl <b>33</b> Dove, Danie	SC <b>33.2.4.7</b>	P 57 Dove Netwo	L <b>27</b> rking Solut	# 215	Cl <b>33</b> Dove, Danie	SC <b>33.2.4.7</b>	P 59 Dove Networ	L <b>18</b> king Solut	# 217		
Comment Ty Through question used an	ype ER nout the State D n of style, but I b nd lines tying blo	Comment Status A iagram, there are numerous elieve it would be more rea cks together used on-page	s connectors that idable if only off-	PSE SD run on-page. This is a bage connectors are	Comment Type E Comment Status A The logic for this arc is located at the entry to the state rather than the exit. Is there a convention here? SuggestedRemedy						
SuggestedR I will lea is a con page, a follow.	Remedy ive this to the Ta nector that as a line from each s	ask Force to decide. It affect n input to IDLE supports nu state combining together to	tts a number of c imerous off-page a single return to	onnectors.Example: A connections. For on- o A would be easier to	Follow style convention as it applies.I would presume the logic for exiting a state should gr at the exit. <i>Response Response Status</i> <b>C</b> ACCEPT IN PRINCIPLE.						
Response ACCEP Chris ar	T IN PRINCIPLI nd Dylan to do th	Response Status <b>C</b> E. neir best.			Chris to fix for next draft.  C/ 33 SC 33.2.4.7 P 59 L 20 # 218  Dove Daniel Dove Networking Solut						
Cl 33 Dove, Danie Comment Ty We nee SuggestedR Add cor Response	SC 33.2.4.7 el ype TR d a connector n Remedy nnector and ensi	P 59 Dove Networ <i>Comment Status</i> A ame here. C1? ure that it connects to all ap <i>Response Status</i> C	L 1 rking Solut opropriate locatio	# 216 Pres: Bullock1	Comment T Is there here. W SuggestedF There a necess Proposed R REJEC	ype <b>TR</b> really a need f hat if its set all <i>Remedy</i> re three POWE ary? If not, rem <i>Response</i> T.	Comment Status D or this state/arcs?The variable the time? ER_ON states (alt-A, alt-B, 4f ove. Response Status Z	e gets cleared i P) that all have t	<i>Pres: Bullock1</i> n IDLE, then set down this loop. Is it		
ACCEP Chris to Dave to	T IN PRINCIPLI update to C1 fc update Class d	E. r next draft. iagram to C1 for next draft.			This co Wait for	mment was WI	THDRAWN by the commenter	er.			

Cl 33 Dove, Dani	SC 33.2.4.7	P <b>59</b> Dove Network	L <b>23</b> ing Solut	# 219	<i>CI</i> <b>33</b> Dove, Dan	SC 33.2.4.7	P <b>64</b> Dove Netwo	L <b>6</b> orking Solut	# 221		
Comment 7 The log the log	<i>Type</i> <b>TR</b> gic for this state a ic in this state, b	Comment Status <b>A</b> appears not to be as indicate ut if we intend to leave it. I re	d in text. There commend chan	Pres: Bullock1 are other issues about ging it.	Comment Type <b>TR</b> Comment Status <b>A</b> Pres: Bullock The logic for the entry arc is not necessarily the same logic as the exit logic on other pages that lead into it.						
Suggested By the them. I (mr_ps 4P mod Response ACCEF Chris to Need fo We near request	Remedy time a 4P SS an s this really how e_ss_mode=0) s de. PT IN PRINCIPL o update logic fo or logic to repres ed 4PID to includ t 2-pair power via	rives at POWER_ON, it has a we want this to work? This so that EITHER of these varia <i>Response Status</i> <b>C</b> E. r November presentation. sent: de physical layer somehow. Y a DLL. Need to check dll_4PI	already powered logic should be ables being 1 wi We need Type 7	I all 4 pair and inrushed (dII_4PID=0) * Il lead to operation in I/2 PDs to be able to not DLL capable.	SuggestedRemedy         I think striking the logic is fine. The other pages that feed into it should have logic on a from prior states. Also, this states PSE > 2. Given that it's a Type 3 and Type 4 state machine, wouldn't this always be the case?         Response       Response Status       C         ACCEPT IN PRINCIPLE.       Dave A. to delete conditions on entry of A1 for next draft.       222         Cl 33       SC 33.2.4.7       P 64       L 51       # 222         Dove, Daniel       Dove Networking Solut       Pres: E						
CI 33 Dove, Dani Comment 7 Can't fi defined Suggested	SC <b>33.2.4.7</b> iel <i>Type</i> <b>TR</b> ind pse_avail_pw d on a pair-set ba <i>Remedy</i>	P 61 Dove Network <i>Comment Status</i> A vr(a) defined. There is a PSE asis, also CAPs rather than lo	L 13 ing Solut _avail_pwr but i ower case.	# 220 Pres: Bullock1 t doesn't appear to be	Exit Ar Suggested Replac Response ACCE Dave	rc C is incorrect <i>Remedy</i> ce C with C1? PT IN PRINCIPL A. to update to C	<i>Response Status</i> <b>C</b> .E. :1 for next draft.				
Either a instance Response	add the variable e relates to PSE	where required or some text available_power.same goes Response Status C	that articulates s, for instance w	now this variable vith pd_req_pwr(a) etc.	<i>CI</i> <b>33</b> Dove, Dan	SC 33.2.4.7	P 64 Dove Netw	L <b>51</b> orking Solut	# 223		
ACCEF Chris to	PT IN PRINCIPL	E. ember presentation.			Comment Exit Ar Suggested Replac Response ACCE Dave J	<i>Type</i> <b>TR</b> rc E is incorrect <i>Remedy</i> ce E with A? PT IN PRINCIPL A. to replace with	Comment Status A Response Status C LE. D Exit A.		Pres: Bullock1		

Comment ID 223

C/ 33	SC 33.2.5.6	P 70	L 25	# 224	CI 33	SC 33	3.6.3.5	P 147	L 12	# 227
Dove, Dan	iel	Dove Network	ing Solut		Dove, Dan	iel		Dove Network	ing Solut	
Comment There	<i>Type</i> <b>TR</b> is a TBD in the te	<i>Comment Status</i> <b>A</b> ext. This cannot persist into c	Iraft 2.0	4PID	Comment Just of	<i>Type</i> bserving t	TR that pd_c	Comment Status D III_enabled not required on t	his arc? Is it p	Management ossible that pd_dll_ready
Suggested This T Response ACCE	IRemedy BD will have to be PT IN PRINCIPLE anges to the draft	e removed prior to 2.0 <i>Response Status</i> <b>C</b> E. result from accepting this co	omment.		Suggestea addres Proposed REJEC	Remedy ss as app Response CT.	ropriate. e	Response Status Z	r	
C/ 33 Dove, Dan	SC 33.5.1.2.2 iel	P 139 Dove Network	L 38 ing Solut	# 225	C/ 33 Dwelley, D	SC 33	3.1.4	P 30 Linear Techno	L <b>42</b>	# 228
Typo Suggested Replac Response ACCEI	<i>IRemedy</i> ce "pss_dll_enabl PT.	ed" with "pse_dll_enabled" Response Status C		Editoriai	Comment End of Suggestea Fix refi Response ACCE	<i>Type</i> Note 2: ' <i>IRemedy</i> erence to PT.	E '(fix refer 33.2.7.4	Comment Status A ence when finalized)" is sure .1. Remove paranthetical no Response Status C	e to be forgotte	<i>Editorial</i> en
Cl 33 Dove, Dan Comment Just of pse_dl	SC <b>33.6.3.5</b> iel <i>Type</i> <b>TR</b> bserving that pse_ II_ready can be tri	P 147 Dove Network Comment Status D _dll_enabled not required on ue while pse_dll_enabled is	L <b>12</b> ing Solut this arc? Is it p false?	# 226 Management	Cl 33 Dwelley, D Comment	SC <b>33</b> avid <i>Type</i> ve the stu	<b>3.1.4</b> E Idy of unl	P <b>30</b> Linear Techno <i>Comment Status</i> <b>A</b> palance and temperature ris	L <b>45</b> blogy e has been co	# 229 Editorial
Suggested addres Proposed I REJEC	Remedy ss as appropriate. Response CT.	Response Status Z			Suggestea Remov Response ACCE	IRemedy ve editor's PT.	s note.	Response Status C		
This co	omment was WIT	HDRAWN by the commente	er.							

CI 33	SC 33.1.4.2.1	P 32	L <b>3</b>	# 230	C/ 33	SC 33	3.2.4.6	P 53	L 16	# 232
Dwelley, D	David	Linear Techr	nology		Dwelley, D	David		Linear Techno	ology	
Comment	Туре Е	Comment Status A		Unbalance	Comment	Туре	E	Comment Status A		PSE SD
33.1.4	4.2.1 just says "Se	e Annex 33A", which also a	appears in 33.1.4	4.2.	"Whe	n a Type 2	2 PSE po	wers a Type 2, Type 3 or Ty	ype 4 PD, the F	SE may choose to
Suggeste	dRemedy				assigr	n a value ( ball assign	of '1' to p	arameter_type if mutual ide	ntification is no	t complete (see 33.2.6)
Strike Fix IS	33.1.4.2.1. Repla	ce "within a twisted pair" w newer reference that specs	ith "for twisted pa pair-to-pair bala	air cables" in 33.1.4.2. nce. The editor's note in	senter	nce and the ssign	he subse	quent sentences can be fixe	ed by replacing	the last "complete" with
33.1.4	4.2.1 can probably	be removed as well.			Suggestee	dRemedy				
Response	)	Response Status <b>C</b>			Chang	ge "compl	ete" to "s	uccessful" in three places.	Strike the editor	r's note.
ACCE	EPT IN PRINCIPL	Ξ.			Response	<del>)</del>		Response Status C		
Chang	ge section 33.1.4.	2 to:			ACCE	EPT IN PR	RINCIPLE			
Link s twiste inform unbal	ections for all type of pair cabling as s nation including 4- ance.	es shall comply with the res specified in ISO/IEC 11801 pair operation channel requ	istance unbalan 2002. Refer to <i>A</i> lirements for pai	ce requirements for Annex 33A for more r-to-pair resistance	Delete 26 wit "Edito	e all chanç h: or's note: <sup>-</sup>	ges to pa This para	ragraph with the exception o agraph requires further study	of line 16. Repl /."	ace Editor's note on line
Strike	section 33.1.4.2.	1			CI 33	SC 33	3.2.4.6	P 53	L <b>32</b>	# 233
CI 22	SC 22.2.4	D 43	1.4	# 004	Dwelley, D	David		Linear Techno	ology	
	30 <b>33.2.4</b>	F 42 Linear Tech		# 231	Comment	Туре	TR	Comment Status A		PSE SD
			lology		This s	seems to i	mply that	a Type 3/4 PSE shall only	provide 2p pow	er to a Type 1/2 PD:
Editor	r's note on page 6	5 line 1 covers this		Editorial	"Whei the PS	n a PSE p SE shall n	oowers a neet the F	PD of lower Type (TypePD) PI electrical requirements of	than its own na the PD Type (	ative type (TypePSE), TypePD), except for
Sunnester	dRemedy				ICon,	ILIM-2P,	llnrush, ll	Inrush-2P, TLIM-2P, and PT	ype (see Table	e 33–11), for which".
Strike	this editor's note.				This g 1 and	joes agair 2 devices	nst one ge s where p	oal of the bt project, which is ossible.	s to provide 4p	power to existing Type
Response	9	Response Status <b>C</b>			Suggestee	dRemedy				
ACCE	EPT.				Set th	e sentenc	ce in the p	positive: "A PSE shall meet	the lcut-2p and	I hold requirements of
EZ					the PI affect made	D it is con this situat clear in 3	nected to tion. Or s 3.2.9. Re	b." These are the only require trike the sentence - Icut is o emove the editor's note.	ements in Table optional and the	e 33-11 I see that might Ihold requirements are
					Response	<del>)</del>		Response Status C		
					ACCE	EPT IN PR	RINCIPLE			
					Remo	ove Editor'	's note or	n page 54, line 51.		

C/ 33	SC 33.2.7	P <b>79</b>	L <b>1</b>	# 234	C/ 33	SC :	33.2.7.5	P <b>85</b>	L <b>45</b>	# 237
Dwelley, [	David	Linear Technolog	ду		Dwelley, D	avid		Linear Techn	ology	
Comment	Type E	Comment Status A		Editorial	Comment	Туре	TR	Comment Status D		Pres: Dwelley1
I think	we got them all				linrush identify	-2p sho / them).	uld be lin	rush for all SS PDs (and DS	single-load PD	s if we define a way to
Suggeste	dRemedy				Suggested	Romodi	V			
Strike	this editor's note.				Chang	e linrus	r h-2n to Iir	orush at lines 45, 47, and 49	Add a new ser	ntence to the end of
Response ACCE	ept.	Response Status C			bullets pairset final va	a and t ." Table alues for	33-11 ite inrush.	connected to a DS PD, the reems 5 and 5a will need adjust	minimum linrush sting as well who	n specs apply to each en we determine the
EZ					Proposed I	Respon	se	Response Status Z		
C/ 33	SC 33.2.7	P 82	L 39	# 235	, REJEC	.,				
Dwelley, [	David	Linear Technolog	ду		This co	omment	was WIT	HDRAWN by the commenter	er.	
Comment	Type E	Comment Status D		PSE Power	01.00	SC 4	0 0 7 5	D.05	1 40	# 020
An ac coinci	tive-balanced PSE idently perfect bala	E needs no extra specs - it will a ance and should meet all unbal	act like a noi ance specs	mal PSE with easily	Dwelley, D	avid	53.2.7.5	P 85 Linear Techn	ology	# 238
Suggeste	dRemedy				Comment	Туре	TR	Comment Status A		Pres: Dwelley1
Remo	ove Note 3.				linrush	-2p min	imum doe	esn't allow for unbalance effe	ects when conn	ected to a single-load
Proposed	Response	Response Status Z			PD. OI connec	ne pairs cted.	et may fa	II to meet the minimum requ	lirement when a	In undalanced load is
REJE	CT.				Suggested	Remed	v			
This c	comment was WIT	HDRAWN by the commenter.			Define a way	linrush to identi	(minimun ify them).	n) as total current for SS PD See presentation dwelley_3	s (and DS singl bt_xx_1015.pdf	e-load PDs if we define
TFTD	I Contraction of the second				Response			Response Status C		
Shoul	d it be forced to su	upport Icon-2p-unb?			ACCE	PT IN P	RINCIPLI	E.		
See c	comment 54				No cha	anges to	draft res	ult from accepting this comm	nent.	
C/ 33	SC 33.2.7	P 82	L <b>42</b>	# 236	Yair ar	nd Dave	D. to wor	rk together.		
Dwelley, [	David	Linear Technolog	ду							
Comment	Туре Е	Comment Status A		Editorial						
Tlim_ before	max is adequately e the pairset curre	described in 33.2.7.7: "Power nt exceeds the "PSE upperbou	shall be rem nd template"	oved from a pairset in Figure 33–14…"						
Suggeste	dRemedy									
Remo	ove Note 4.									
Response	;	Response Status C								
ACCE	EPT.									

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

C/ 33 SC 33.2.7.	5 P 86	L 6	# 239	C/ 33 S	C 33.3.8	P 119	L <b>44</b>	# 241
Dwelley, David	Linear Technol	ogy		Dwelley, David		Linear Teo	hnology	
Comment Type T	Comment Status A		Pres: Dwelley1	Comment Type	ER	Comment Status A		Editorial
Figure 33-13: The fig current is shown. Thi Figure 33-14 shows	ure is described on line 26 as a t s could imply that the minimum i min and max)	template, but nrush current	no minimum inrush is zero (especially since	"Editor's N officially ex	ote: To add ist and mus	line for Type 1 and Type 2 at meet the same specs as	2 dual-signature T1/2 SS PDs.	" Such PDs do not
SuggestedBernedy				SuggestedRen	nedy			
	marked 0 404/TDD) and adjust		and an annear and about	Strike this	editor's note	9.		
Type 3 and 4 inrush 14). Change "linrush (after equation 33-5)	evels (this may require adding e -2p" labels to "linrush". Add a ne	xtra figures as w sentence a	s we did with Figure 33- t the end of the section	Response ACCEPT I	N PRINCIP	Response Status <b>C</b> LE.		
pairset."				OBE by 15	1.			
Response ACCEPT IN PRINCI	Response Status <b>C</b> PLE.			C/ <b>33</b> S Dwelley, David	C 33.4.9	P <b>129</b> Linear Teo	L 1 chnology	# 242
Change "template" ir	Figure 33-13 and on page 86, li	ine 27 to "max	ximum limit".	Comment Type	E	Comment Status A		Editorial
	P112	1.4	# 240	Section 33	.1.4.1 is up	dated		
Dwelley, David	Linear Technolo	ogy	# 240	SuggestedRen	nedy			
Comment Type E	Comment Status A		PD Power	Strike this	editor's note	9.		
Note seems obsolete	e: item 4 no longer has values.			Response ACCEPT I		Response Status <b>C</b>		
SuggestedRemedy				1002111				
Strike this editor's no	te.			OBE by 27				
Response ACCEPT.	Response Status C			EZ				
The value has been	moved to Table 33-16a.							
The note was there t	o remind us that we rounded up.	I believe w	e are all ok with this.					

-											
Cl 25 Schindler	SC <b>25.</b> , Fred	<b>4.5</b>	P <b>24</b> Seen Simpl	<i>L</i> <b>1</b> у	# 243	C/ 33 Schindle	SC r, Fred	33.1.1	P <b>27</b> Seen Simp	L <b>53</b> bly	# 244
Commen	t Type T	R Comment Sta	atus A		PI	MD Comme	nt Type	ER	Comment Status A		Objectives
Existi "A re- shall requi acce (OCL shoul Suggeste "A 10 receiv meet Endp powe or me Response ACCI	ing text, ceiver in a 1 meet the rements of 2 pting more t .) requireme ld be improved edRemedy 00BASE-TX ver in a Typ the required boint PSE or er shall meet eet the required eet the required	Type 2 or greater Endp 25.4.7. A transmitter in han 13.0 W average p nt in 9.1.7 of TPPMD, red to clarify meaning e 2 or greater Endpoin ments of 25.4.7. A 100 Type 2 or greater PD either the Open Circu rements of 25.4.5.1." <i>Response Sta</i>	oint PSE of a Type 2 ower shall or meet th and to incl t PSE or T BASE-TX delivering it Inductar	or Type 2 or greate Endpoint PSE or meet either the C e requirements of ude new Types. ype 2 or greater F transmitter in a Ty or accepting more ce (OCL) requirer	er PD (see Clause 33) Type 2 PD delivering o pen Circuit Inductance 25.4.5.1." PD (see Clause 33) sha ype 2 or greater than 13.0 W average ment in 9.1.7 of TPPMI	Exis requ clau or e "Typ requ max 10G For with all Suggest Rep D, "Typ all F <i>Respon</i> ACC	ting text of irements irements se 33. L e 1 opera- ires ISO/ imum arr BASET. 10GBASI out regar- edRemed ace text e 1 opera- SEs are se EPT IN I	does not do . Text co . All othe Jnnecessa ation adds (IEC 1180 nbient opera d to DTE dy with the for ation adds covered in PRINCIPI	cover new types. Legacy for overing 10-GBASE-T point overing 10-GBASE-T point overing 10-GBASE-T point over the two second second second second second second erating temperature. The class ation, the channel model second power via MDI presence class collowing, second second second second collowing, second second second second second second second collowing, second second second second second second second second collowing, second se	ext repeats (intro s to another Clau annel requiremen eader. ats to the cabling. abling, and a der ause does not ad pecified in Clause or operation."	duces) cabling se to get channel ts for power over DTE in Type 2 operation ating of the cabling dress the operation of 55 needs to be met Cable requirements for
						OBI	by 13.				

CI 33	SC	33.1.4		P <b>30</b>	L <b>9</b>	# 245		C/ 33	SC	33.1.4		P 30		L 18	# 246
Schindler,	Fred			Seen Simply				Schindler	Fred			Seen Sim	nply		
Comment	Туре	TR	Comme	nt Status A			Types	Comment	Туре	TR	Comn	nent Status A			Pres: Fred1
The T "The I certai	ask Fo bower s n basic	rce should system is o paramete	d discuss th defined by t ers defined	e sentence, he lowest Type of according to Table	PSE or PD in 33-1. "	a system and has		Table provic CON (three	33-1 no le class CERN1. commo	o longer re 1 to 8 po This cor ents total)	epresents wer levels mment ma	system power s. Note this cor ay be OBE by a	levels co icern is re nother co	rrectly bec elated to a omment m	cause Type 4 PSEs may comment marked with arked by CONCERN1
The te	ext perr	nits PSEs	that can pr	ovide class-8 pow	er levels to by This permits (	be considered clas	ss 1	Suggeste	dReme	dy					
used. more comm	This r channe ient ma	esults in a el loss thar arked with	a cable pow n a Type-1 CONCERN	er dissipation incre system permits. 1	ease of about 2 This comment i	230x, which is about is related to anothe	ut 9x er	Repla This r	ice Type esults i	e with the n these ch	highest p nanges,	ower class perr	nitted wit	h the refei	renced cable system.
Suggeste	dReme	dy						1.Rep 2 Rep	lace Ta	ble 33-1 t	itle with "S	System power p	aramete	rs Vs PSE	E Class Power"
Chang 1.The 2.The The fi histor	ge how maxim maxim rst cho ically th	the power num class num class ice is prefe nis has bee	r system is power the l power the l erred becau en the case	defined so that ca PSE Type can pro PSE can provide. Ise users may selo	bling requirem vide, or ect PSEs base	ents are dictated b d on Type because	ey,	"Syste 3.Typ 4.Typ 5.Typ 6.Typ	em Pow e 1 bec e 2 bec e 3 bec e 4 bec	ver Limit (l omes Cla omes Cla omes Cla omes Cla	PSE class ss 3 or 0. ss 4. ss 5 and ss 7 and	6. 8.	Type (Lo	west type	or se and b) with
Popla	aa tha	colled out		with				Response	<b>;</b>		Respo	nse Status C			
"The j syster	bower s n and l	system is on as certair	defined by t n basic para	he highest power ameters defined a	class allowed f ccording to Tat	for the Type of PSE ble 33-1. "	E in a	ACCE	EPT IN	PRINCIPL	_E.				
Or								1.Rep 2 Rep	lo. blace Ta blace Ta	ble 33-1 t	itle with "	System power p	aramete	rs Vs Max	imum PSE Class" of PSE and PD)" with
"The j certai	oower s n basic	system is o paramete	defined by t ers defined	he highest power according to Table	class of the PS e 33-1. "	SE in a system and	l has	"Syste 3.Typ	en Pow	ver Limit (l omes Cla	Maximum ss 0 to 3.	PSE class)"	1)00 (20	moor type	
Response	•		Respons	se Status C				4. Typ 5. Typ	e 2 bec e 3 bec	omes Cla omes Cla	ss 4. ss 5 and (	6.			
ACCE	PT IN	PRINCIPL	LE.					6.Тур	e 4 bec	omes Cla	ss 7 and	8.			
Chang The	ge sent power s	ence to: system has	s certain'												
Chan	ge title	of Table 3	3-1 to: "Sys	stem power param	neters Vs PSE	Туре"									
Make	heade	r of colum	n 1: "PSE <sup>·</sup>	Туре"											

C/ 33	SC <b>33.2.0a</b>	P <b>32</b>	L <b>33</b>	# 247	C/ 33	SC <b>33.2.7.7</b>	P 87	L <b>5</b>	# 250
Schindler,	Fred	Seen Simply			Schindler,	Fred	Seen Simply		
Comment Norma "PSEs shows permis	Type TR ative text is not pr s can be categoriz the ssible PSE types	Comment Status A resent. The existing text is, zed as either Type 1, Type 2, T along with supported paramet	ype 3, or Typers."	<i>Types</i> e 4 PSEs. Table 33-1a	Comment The te "Equat mode, (33-6a signatu 14b ag	<i>Type</i> <b>TR</b> xt is should be nou- ion (33-6), Equati- as well as to Type ), Equation (33-7 <i>a</i> ure PDs, operating poly to Type 4 PSE	Comment Status A mative. on (33-7) and Figure 33-14 a 3 and Type 4 PSEs connet ) and Figure 33-14a apply t and Figure 33-14a apply t in 4-pair mode. Equation ( a connected to single-signal	apply to PSEs ected to dual-s o Type 3 PSE 33-6b), Equati ature PDs, ope	Pres: Yseboodt1 that operate in 2-pair ignature PDs. Equation s connected to single- ion (33-7b) and Figure 33- erating in 4-pair mode."
Suggested	aRemedy				Suaaestea	lRemedv	0 0	· ·	0
"PSEs meet o	s can be categoriz	zed as either Type 1, Type 2, 1 e PSE Type requirements prov	ype 3, or Typ	e 4 PSEs. PSEs shall 3-1a."	Replac "Equat	ce the text with,	on (33-7) and Figure 33-14	shall	
Response ACCE	PT IN PRINCIPL	Response Status <b>C</b> E.			apply t conne shall	to PSEs that operative to dual-signation	ate in 2-pair mode, as well a ure PDs. Equation (33-6a),	as to Type 3 an Equation (33-	nd Type 4 PSEs 7a) and Figure 33-14a
"PSEs summ	s can be categoriz arizes the permis	zed as either Type 1, Type 2, 1 sible PSE types along with su	ype 3, or Typ pported param	e 4 PSEs. Table 33-1a neters."	apply f Equati apply f	to Type 3 PSEs co on (33-6b), Equati to Type 4 PSEs co	onnected to single-signature on (33-7b) and Figure 33-1 onnected to single-signature	e PDs, operatir 4b shall e PDs, operatir	ng in 4-pair mode. ng in 4-pair mode."
Cl 33 Schindler,	SC 33.2.5 Fred	P <b>87</b> Seen Simply	L 37	# 248	Response ACCE	PT IN PRINCIPLE	Response Status C		
Comment Clause	<i>Type</i> <b>ER</b> e reference 33.2.7	Comment Status <b>A</b> 7.1 is not a hyperlink.		Editorial	OBE b	y 175.			
Suggested Use a	dRemedy hyperlink.								
Response ACCE	PT.	Response Status C							
EZ									
Cl 33 Schindler,	SC <b>33.2.7</b> Fred	P 101 Seen Simply	L <b>14</b>	# 249					
Comment Clause	<i>Type</i> <b>ER</b> e reference 33.2.7	Comment Status <b>A</b> 7.1 is not a hyperlink.		Editorial					
Suggested Use a	<i>dRemedy</i> valid hyperlink.								
Response ACCE	PT.	Response Status C							

ΕZ

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

CI 33	SC	33 2 7 7		P 87	/ 12	# 251	C/ 33	SC	3 2 7 11	P <b>Q1</b>	1	22	# 252
Schindler,	Fred	00.2.1.1	Se	en Simply	- 1 <b>2</b>	# [ <b>2</b> 51	Schindler	, Fred		Seen Sir	nply		
Comment	Туре	TR	Comment Stat	us <b>R</b>		PSE Powe	r Commen	t Type	TR	Comment Status A			Unbalance
The e " Whe power	xisting on conn from b	text, ected to a oth pairse	single signature l ts before the curr	PD, a Type ent exceed	3 or Type 4 PS s the "PSE uppe	E should (TBD) remove proound template" on	The t "Type prese	ext, e 2, Type ence of (li	3 and Typ unb / 2)."	be 4 Endpoint PSEs sh	all meet the	requiremen	ts of 25.4.5 in the
provic	les unn	ecessary (	guidance. The pri	ior sentenc	e,		Shou	ld be rest	tricted to 1	00BASE-T operation.			
"Powe	er shall	be remove	ed from a pairset	of a PSE b	efore the pairset	current exceeds	Suggeste	dRemed	y				
provid	les requ	uirement.					Repla "A 10 	ace the se 00BASE-1	entence w TX transm	ith, itter in a			
On pa "Powe	ages 10 er mav	0 to 101, be remove	d from both pairs	ets anv tim	e power is remo	oved from one pairset.	l ype prese	2, Type 3 ence of (I	3, and Typ unb / 2)."	e 4 Endpoint PSEs sh	all meet the	requirement	ts of 25.4.5 for in the
Editor	's Note	: All other	instances of the a	above state	ment to be remo	oved from draft. If	Respons	e		Response Status C			
comm any p	lease c	s find omment ag	gainst them." The	e first sente	ence called out in	n this comment is fits	ACC	EPT.					
the co	oncern e	expressed	in the Editor's no	te.			EZ						
The re upper pairse	equirem bound t et may r	nent in this template. not warrant	section prevents Concerns about of ted because the of	one or bot delays in tu device conr	h of the pairsets rning off one pa nected to the PS	from crossing the PSE irset then a second E is no longer	Cl <b>79</b> Schindler	SC 7	79.3.2.6b	P 13 Seen Sir	<i>L</i> mply	48	# 253
consid provid power	dered a lers to l r on a n	PD. Havi build syste onfaulting	ng the ability to coms capable of rer pairset.	ontrol pairs moving pov	ets individually presented with the set of t	permits system while still providing	Commen Corre	<i>t Type</i> ect text, "I	ER PD 4PID".	Comment Status A			Editorial
Suggeste	dReme	dy					Suggeste	dRemed	y				
Strike	the se	ntence,	- to other a town a town a		0 T 4 D0		Repla	ace this te	ext with, "F	PD 4P-ID".			
power either	n conn from b pairset	ected to a oth pairse	ts before the curr	PD, a Type ent exceed	s the "PSE uppe	erbound template" on	Respons ACC	e EPT.		Response Status C			
Response REJE	e CT.		Response Stati	us <b>C</b>			EZ						
See 5	1												

C/ 33	SC	33.3.2		P 97	L <b>5</b>	# 254	4	CI 33	SC	33.2.4.4		P 44	L <b>7</b>	# 255
Schindler,	Fred			Seen Simply				Schindler,	Fred			Seen Simply	/	
Comment	Туре	TR	Comment	Status D			PD Class	Comment	Туре	ER	Comment	Status A		PSE SD
The m Unfor	odified unately	legacy te , the pow	ext exists to re er level at whi	quire PDs to pro ich this is possib	ovide an indica ole is not preci	ation of under po sely called out.	ower. Ideally,	Variat the sa	ole PD_ ame pur	_4pair_can pose. Nei	id on page 66 ither variable	and PD_4pair is used.	r_candidate on	page 67 appear to be for
the in	dicator	should op	erate at the lo	west PSE powe	er class-1 leve	I.		Suggestee	dReme	dy				
"A Tyj Physic power	be 2, Ty cal Laye restrict	/pe 3 or T er classific tions and	ype 4 PD that cation or Data shall provide	t does not succe Link Layer clas the user with an	essfully observessification shal	ve a Multiple-Ev I conform to Typ ion if underpow	ent pe 1 PD ered. The	1)Dele Editor legacy	ete both 's Note y PD ma	n variables : Task fore ay be powe	and replace ce members rered on both	one of them w that want a ph pairsets shoul	vith an Editors f ysical means f Id provide a sol	that reads, or determining whether a lution.
Suggester	NRomor				1.			OR						
Chan	the s	sentence t	to,					2)Use	only va	ariable PD	4pair candi	date as this va	ariable is used	on page 92.
"A Ty	бе 2, Ту	/pe 3 or T	ype 4 PD that	does not succe	essfully observ	e a Multiple-Ev	ent	Response	)	-	Response	Status C		
power	restrict	er classific	shall provide	Link Layer clas	sification shall	i conform to Typicion if underpow	pe 1 PD ered. The	ACCE	EPT IN I	PRINCIPL	Е.			
metho implei	d of ac nenter.	tive indica	ation is left to	the				Add "I deterr	Editor's ninatior	Note: Cla n of variabl	assification se le PD_4pair_	ection of state cand." below F	diagram to be Figure 33-9d.	updated with
Type class	3 or Typ 1."	be 4 PDs	shall provide	the active indica	ation while ope	erating within PE	) power	CI 33	SC	33.2.4.6		P 52	L <b>5</b>	# 256
Proposed	Respor	nse	Response	Status Z				Schindler,	Fred			Seen Simply	/	
REJE	CT.		·					Comment	Туре	ER	Comment	Status A		PSE SD
This c	ommer	nt was WI	THDRAWN by	y the commente	er.			The te "valid:	ext on li The P	nes 5 and SE has de	19, etected a PD r	equesting pov	ver."	
Do we	really	want to re	estrict them to	class 1? Type	1, yes.			Shoul	d corre	ctly describ	be what a PS	E has complet	ted.	
This v	ould se	em to be	a feature, but	t not a requirem	ent for interop	erability.		Suggestee	dReme	dy				
			·····			,, <b>,</b>		Repla	ce text	called out	on line 5 and	line 19 with,		
								"valid:	The P	SE has de	etected a valid	PD detection	signature."	
								Response ACCF	PT		Response	Status C		
								//OOL						

C/ 33	SC 33.2.6.3	P 88	L <b>43</b>	# 257	C/ 33	SC 3	3.2.7.11a	P <b>91</b>	L 35	# 259
Schindler	, Fred	Seen Simply			Schindler,	Fred		Seen Simply		
Comment	t Type ER	Comment Status A		Autoclass	Comment	Туре	TR	Comment Status D		PSE Power
The u These Suggeste	units of Pac_marg e variables are us	in and PAutoclass appear to l ed in the formula above their	be Watts but thi description.	s is not called out.	The in Type 1 which	put aver 1 and 2. increase	age currer It does no the energ	nt has been calculated with a ot make sense to change the gy transferred when the PSE	at least a 1 seco window to 4 second is providing po	ond window for the econds for Type 4, ower at the highest
Suggeste	urtenieuy	a the following text before the	pariad on line	44	power	level po	ssible in th	his clause.		
", bot	h variables are in	Watts."	e period on line	44,	Suggested	Remedy	/			
Response	9	Response Status C			Have t 1 secc	the Task ond.	Force dis	cuss this. The preferred sol	ution is to use a	a sliding window size of
ACCE	EPT IN PRINCIPL	.E.			Proposed	Respons	se	Response Status Z		
Add "	'in Watts" after "m	easured power" on line 44.			REJE	CT.				
Edito	r to fix formatting	of equation. (unit formatting)			This c	omment	was WITH	HDRAWN by the commenter	r.	
C/ 33	SC 33.6.3.1	P <b>142</b>	L 14	# 258	TFTD					
Schindler	, Fred	Seen Simply		······································						
Comment	t Type ER	Comment Status A		DLL						
Clarif PSE_	y values used for INITIAL_VALUE.	PD_DLL_MAX_VALUE, PD_I	NITIAL_VALUE	E, and						
Suggeste	dRemedy									
After "Varia up va may t	the variable PSE_ ables PD_DLL_M lues to provide m be found in 33.3.7	_INITIAL_VALUE description AX_VALUE, PD_INITIAL_VAI argin. Additional information .2."	(line 3 on page _UE, and PSE_ on power levels	143) add, INITIAL_VALUE, round for classes 6 and 8						
Response	9	Response Status <b>C</b>								
ACCE	EPT IN PRINCIPL	.E.								
After "Varia quant 6 and	the variable PSE_ ables PD_DLL_M tized to fit the ava I 8 may be found i	INITIAL_VALUE description AX_VALUE, PD_INITIAL_VAI ilable resolution. Additional ir in 33.3.7.2."	(line 3 on page _UE, and PSE_ formation on p	143) add, INITIAL_VALUE, are ower levels for classes						

C/ 33	SC	33.2.7.11	P <b>91</b>	L 33	# 260	CI 33	SC	33.2.4.4	P <b>46</b>	L 27	# 261
Schindler	r, Fred		Seen Simply			Schindler,	Fred		Seen Simply	/	
Commen	t Type	TR	Comment Status R		Pres: Schindler1	Comment	Туре	TR	Comment Status A		PSE SD
Type supp	-4 PSEs ly voltage	, optimize e than othe	power transferred to the PD b er PSE Types, and provide 4-	y, using a fixed pair-only opera	d polarity, a higher tion. The sentence,	Variab Altern A whe	ole mr_  ative is n only	pse_alterna used. The one pairse	ative provides values, A, B, a Task Force needs to deci t is driven on a PSE that su	and BOTH, to ir de whether all 2- pports BOTH pa	ndicate which PSE mosfet PSES drive ALT- irsets.
"Туре	e 4 PSEs r "	s are not re	equired to support PType if the	ey are restricte	d to Class 7 power or	Suggested	dReme	dy			
perm provi	its Type- ded by T	-4 PSEs to ype 1, 2, a	limit output power to class le and 3, PSEs.	vels 1 to 7. Le	vels 1 to 6 are already	Recon comm Modifi	nmend ent ma	using a de arked CON	fault of ALT-A for the case CERN2.	called out. This	solution is used in the
This desc	allowanc ribing a s	e introduc	es interoperability issues and customers or when providing i	adds unneces	sary complexity when	Values one pa	s: A: Th airset is	ne PSE use s driven on	a PSE that supports BOT	, which is also the H pairsets.	ne default pinout when
anotł provi 5e re	her comn ded. Foi equires 2	nent marke r example, 5.97W. Th	et CONCERN1). Very little sy a Type-4 PSE providing 25.5 he same transfer requires 26.0	stem power op W to a PD atta )1W from a 4-p	otimization benefit is ached with 30 m of CAT- pair Type-3 PSE. This	Response ACCE	PT IN I	PRINCIPLE	Response Status <b>C</b> E.		
perfo spec wher	ification. their vo	difference Note that Itage level	is not visible when using three a Type-3 PSE can have iden s match.	e significant di ical performar	gits used within this ice to a Type-4 PSE	OBE b	oy 198				
Lega cable introc infras resul	when their voltage levels match. Legacy systems may be described using Type, which covers system power levels, and the cable infrastructure required. A Type-2 PSE powered a Type-2 PD. The added sentence introduces six Type-4 PSEs that will not power a Type-4 class-7 or 8 PD. The cable infrastructure for Type-4 systems needs to be determined using class power levels, which mention there t										
Suggeste	edRemed	dy									
Strike limits intero netwo	e the refe s. This re operabilit orks can	erenced se estores pre ty issues. co-exist w	ntence, which results in Type evious conventions and remov This restriction also increases ith networks used to power lig	-4 PSE providi es many case the likelihood hting.	ng class-7 or 8 power s that result in that computer						
Respons	е		Response Status C								
REJE	ECT.										
Vote	:										
Acce	pt: 7										
Reje	ct: 3										

Abstain: 10

\* (mr pse alternative = BOTH))

alt a pwr <= TRUE

alt b pwr <= TRUE

Response Status C



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

Comment ID 262

Page 68 of 71 10/15/2015 4:32:17 PM

Cl 33 Schindler,	SC <b>33.2.4.7</b> Fred	P <b>57</b> Seen Simply	L <b>7</b>	# 263	C/ <b>33</b> Stover, Da	SC avid	33.2.0a	P <b>33</b> Linear Tech	L <b>1</b> nnology	# 264
Comment TEST IF (mi Alt_ IF (mi	<i>Type</i> <b>TR</b> _MODE r_force_pwr_a) TH _a_pwrd <= TRUE r_force_pwr_b) TH	Comment Status A IEN IEN		Pres: Bullock1	Comment Link to Suggested Add h	<i>Type</i> o 33.3.8 d <i>Remed</i> yperlink	E not valid dy	Comment Status A		Editorial
Alt_ The T functio	_b_pwrd <= TRUE EST_MODE block oning.	exit does not facilitate one A	ALT having a fa	ault while the other is	Response ACCE	PT.		Response Status C		
Suggeste	dRemedy				EZ					
Break	the existing test,	······································	det er erdd		C/ <b>33</b> Stover, Da	SC avid	33.2.4.4	P <b>45</b> Linear Tech	L 10 nology	# 265
(mr_p	se_enable = force	_power)"(ovid_det_a + short	_det_a+ ovid_	det_b + short_det_b)	Comment	Tvpe	TR	Comment Status A		PSE SD
Into tv (mr_p	vo, one path that se_enable = force	_power)*(ovld_det_a + short	_det_a)		Two v "cand	ersions " is use	of the sam d by SD, "c	e variable are present, P andidate" is used in 33.2	D_4pair_cand an 5.6, 4PID require	d PD_4pair_candidate.
That (	goes to a block,				Suggestee Pick a	dRemed single	<i>ly</i> name and	definition. Correct outdate	ed references to	whichever name is
Alta	_ERROR_A pwrd <= FAI SF				remo\	/ed.				
Exit th	he block as was the	e case in TEST_ERROR.			Response ACCE	PT IN F	PRINCIPLE	Response Status <b>C</b>		
And a (mr p	nother path that se enable = force	power)*(ovld det b + short	det b)		OBE I	oy comr	ment 59.			
( <u> </u>			,		CI 33	SC	33.2.4.7	P <b>57</b>	L <b>5</b>	# 266
That o	goes to a block,				Stover, Da	avid		Linear Tech	nology	
TEST Alt_b_	_ERROR_B _pwrd <= FALSE				Comment Mixed	<i>Type</i> use of	TR e.g., "alt_a	Comment Status <b>A</b> _pwrd" and "alt_pwrd(a)" /b_pwrd" variables are de	for inspecting if a	<i>Pres: Bullock1</i> a particular alt is
Exit th	ne block as was th	e case in TEST_ERROR.			Suggester	dDomor	oniy an_a √v		inicu.	
Response ACCE	) EPT IN PRINCIPLE	Response Status <b>C</b>			Defer SD to	to PSE use "al	y SD develo t_a/b_pwrd	per. If there exists a distir " nomenclature.	nction, define "alt	_pwrd()". Else, revise
Chris error	and Lennart to inc on A and B for nev	corporate Suggested Remedy v draft.	v along with thi	rd state representing	Response ACCE	PT IN F	PRINCIPLE	Response Status <b>C</b>		
					Chris/	Dylan to	o update fo	r a November presentatio	n.	

Comment ID 266

			IEEE P802	2.3bt D1.3 4-Pair PoE 6	th Task Fo	orce re	view cor	nments				
C/ 33 S	C 33.2.4.7	P 57	L 16	# 267	CI 33	SC	33.6.3.3	P 145	L 10	# 270		
Stover, David		Linear Technology			Stover, Da	avid		Linear Techno				
Comment Type Mixed use particular a	e <b>TR</b> of e.g., "pwr_ lt, but only "p	Comment Status <b>A</b> _app(a)" and "pwr_app_a" for owr_app_a/b" variables are d	inspecting if po	Pres: Bullock1 ower is applied to a	Comment pse_p suppo	<i>t Type</i> power_ty orting te	<b>E</b> ype has si xt	Comment Status A nce been renamed to pse_po	wer_level in Fig	<i>Management</i> gure 33-16 and		
SuggestedRemedy					SuggestedRemedy							
Defer to PSE SD developer. If there exists a distinction, define "pwr_app()". Else, revise SD to use "pwr_app_a/b" nomenclature.					Rename pse_power_type to pse_power_level							
Response Response Status C ACCEPT IN PRINCIPLE.					Response ACCE	ACCEPT. Response Status C						
Chris to inc	orporate any	resulting changes to variabl	es/diagram for	November presentation.	EZ							
Cl 33 So Stover David	С 33.2.5.0а	P 66	L <b>35</b>	# 268	C/ <b>33</b> Stover, Da	SC avid	33.6.3.5	P <b>148</b> Linear Techno	L <b>9</b> logy	# 271		
Comment Type     E     Comment Status     A     Editorial       Paragraph is indented     SuggestedRemedy     Remove indentation				Comment Type E Comment Status A Management pse_power_type has since been renamed to pse_power_level in Figure 33-16 and supporting text SuggestedRemedy								
				Rename pse_power_type to pse_power_level								
Response ACCEPT.		Response Status C			Response ACCEPT.			Response Status C				
EZ					EZ							
C/ 33 So Stover, David	C 33.3.5	P <b>105</b> Linear Techno	L <b>46</b> logy	# 269	C/ <b>33</b> Stover, Da	SC avid	33.8.3.3	P <b>161</b> Linear Techno	L <b>5</b> logy	# 272		
Comment Type E Comment Status A Typo				Editorial	Comment Type         E         Comment Status         A         Management           pse_power_type         has since been renamed to pse_power_level in Figure 33-16 and         Management							
SuggestedRem Replace "P	nedy 'D's" with "PI	Ds"			SuggestedRemedy							
Response ACCEPT IN		Response Status <b>C</b> =.			Response		_power_ty	Response Status <b>C</b>				
OBE by 149					EZ	LI'I.						

Cl <b>33</b> Stover, David	SC <b>33.8.3.3</b> d	P 1 Linea	<b>61</b> r Technology	L <b>36</b>	# 273					
Comment Ty	vpe E	Comment Status	Α		Management					
pse_power_type has since been renamed to pse_power_level in Figure 33-16 and supporting text										
SuggestedRemedy										
Rename pse_power_type to pse_power_level										
Response ACCEPT	Г.	Response Status	С							

ΕZ